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GSCA Conference and Dome Day in Chattanooga and Birmingham, Sept. 21–24

Some 300 people attended the **Giant Screen Cinema Association**'s annual conference and trade show held in Chattanooga, TN, Sept. 21–23, followed by a Dome Day in Birmingham, AL, on Sept. 24. The meeting included screenings of 18 new films plus presentations on 23 films in production and 12 films in development. Also featured were several professional development sessions, a technical session, a trade show, and an awards ceremony. The association also remembered six GS veterans who had died in the previous few months.

The Chattanooga portion of the meeting was hosted by the **Tennessee Aquarium**, which has a 291-seat IMAX theater with a 69x87-foot (21x27-meter) screen and an IMAX laser projection system that was installed in 2016. The theater opened in 1996. Dome Day was held at the **McWane Science Center** in Birmingham, about 250 miles (400 kilometers) away. Its 20-year-old IMAX Dome theater is 79 feet (24 meters) in diameter, and seats 280. It continues to use its IMAX 15/70 film projector, but for the conference **Evans & Sutherland** and **Christie** temporarily installed a 6K system that used three RGB laser projectors.

Giant Screen 101

The conference kicked off, as they usually do, with an orientation session for newcomers to the business, "Giant Screen 101." The session featured several presentations designed to acquaint newbies to the unique ways in which the GS world differs from conventional filmmaking and exhibition. The session was organized by **Diane Carlson** of **Giant Screen Cinema Consulting** and by **Paul Wild** of **IMAX Victoria in the Royal BC Museum**.

Patricia Keighley, **Chief Quality Guru** at **Imax Corporation**, spoke about accessibility and versioning for digital cinema. U.S. law now require all theaters, including GS theaters, to provide closed captioning and audio description services for all films that have been made with that feature. (If the filmmaker/distributor has not provided captioning or descriptive audio, the theater is not required to create it.) Theaters must post notices of the service, and have trained staff available to provide assistance with the equipment at all shows.

In the analog age, soundtracks were physically separate from film prints, so the same print could be sent to any theater accompanied by a sound track (on mag film, CD, or tape) in the language needed. In the digital age, sound and picture are wedded in one digital file, which has complicated the process of versioning. Keighley said that the number of digital versions of the films Imax distributes has been climbing dramatically every year, from 900 in 2104 to 1,900 in 2016, to a projected 2,750 in 2018, reflecting variations in projector type, sound system, 2D/3D, language, accessibility features, etc. As a result, a complex digital cinema naming system for titles and versions has been developed that specifies all the various characteristics in the name of the digital cinema package.

Marlene Janetos of the **Museum of Discovery and Science** in Ft. Lauderdale, FL, described how they used the installation of the IMAX with Laser system in 2016 to rebrand the theater. They used videos — including a time-lapse of the new screen being installed, shot by a museum fan; and a tour of the booth during the installation process, shot by a projectionist — along with ads on a new digital billboard on a heavily travelled highway in the area. Banners and signs featuring the IMAX with Laser images were placed along the road approaching the museum, outside the building, and inside as well. A dynamic pre-show highlighted the system's capabilities. Media kits sent to 57 outlets resulted in several prominent newspaper articles and television news coverage. Google AdWords, social media, and a public service announcement run for free by a local TV station also helped spread the word, as did a partnership with Miami's Comic Con.

*(see **GSCA** on page 6)*

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Corrections

The caption for the photo on page 13 of the Summer issue incorrectly identified the location of the filming for *Snow*. That shot was taken in the French Alps, not Belarus.

Premiering This Summer

Volcanoes: The Fires of Creation

See page 15.

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A Tale of Two Domes

As we have reported previously, two GS domes closed this fall for upgrades from film to digital. They present a study in contrasts: one on the east coast of the U.S., one on the west; one a level dome, the other a tilted dome; one celebrating its 50th anniversary this fall, the other its 20th; one retiring 8/70 film, the other 15/70; one installing a two-projector fulldome system with xenon lamps, the other a single-projector IMAX laser system; one programming mainly planetarium shows, the other mostly GS films.

The first is the **Strasenburgh Planetarium** at the **Rochester Museum and Science Center** in Rochester, NY, the second is the Hackworth IMAX Dome Theatre at **Tech Museum of Innovation** in San Jose, CA.

Strasenburgh Planetarium

The Strasenburgh Planetarium opened on Sept. 14, 1968, with a Zeiss VI planetarium instrument in a 65-foot (20-meter) dome; it added an Iwerks 8/70 linear loop 8/70 film projector in January 1995. Its programming has always been a mix of live planetarium shows and GS documentaries, favoring the former, in keeping with its mission. On July 1, 2018, it ran its last film screening, **MacGillivray Freeman**'s *Dolphins* (2000), although it continued to run planetarium shows until Sept. 3.

Its new fulldome system will be an **Evans & Sutherland** Digistar 6, featuring two **Christie** Boxer 4K projectors. According to planetarium director **Steve Fentress**, in addition to new sound input and theater control systems, the $1.5-million renovation will include new seats, carpeting, and LED lighting inside the dome and an update to the food service bar, lighting, and restrooms in the lobby area. The new chairs are larger and movable, and will lower the seat count from 225 to 130.

Fentress tells *LFX* that they are not removing the 50-year-old Zeiss star projector, "even though it is showing its age in places. We will see how it looks in combination with the new Digistar imagery and look for ways to incorporate it. We also tentatively plan a monthly hour-long live star show concentrating on the Zeiss VI. When the time comes, the Zeiss will retire to a place of honor as an exhibit."

The project is still under way, with an expected opening date in mid-January.

Tech Museum

In California, the Tech's IMAX Dome theater is 82 feet (25 meters) in diameter, and seats 295. It opened on Oct. 31, 1998. Like Strasenburgh, the Hackworth ran its last film show on July 1: MFF's *Everest* (1998), the first film it played on opening day.

Its conversion to the first IMAX laser dome projection system in the world has been a complex process that included erecting scaffolding to remove and replace the dome skin and sound system, and modifying the "doghouse" in the center of the seating deck to accept the IMAX laser projector. Manager **Michelle Duncan** tells *LFX* that because the chillers for the laser modules must be located within about ten feet (three meters) of the projector head, special steel towers (which must withstand California's seismic activity) have been built in the booth to support them. The seats, carpeting, and lighting in the theater are all relatively new, and were not replaced in this renovation. However, the floor of the booth and the lobby lights and restrooms have all been refreshed as part of the $2.7 million upgrade.

The new system had a soft opening to the public on Nov. 1, one day after the theater's 20th birthday. The first

The Strasenburgh Planetarium under renovation. The rectangle on the floor in front of the Zeiss pit covers the hole in which the Iwerks 8/70 film projector was formerly mounted.

Photo by Steve Fentress.

Photo by Paul Fraser.

Scaffolding needed to replace San Jose's dome begins to rise.

public show was ***Oceans: Our Blue Planet***, from **BBC Earth** and **Giant Screen Films**.

The future

Until recently, Rochester and San Jose were among the remaining 50 or so GS domes that have only film projection. With the introduction of **Imax Corporation**'s long-awaited laser system for domes (*see Summer 2018*), most dome operators now have enough information to decide which systems would suit them best, even if they don't have the money to buy them.

Some domes may struggle to obtain the resources needed to go digital, but their film projectors are aging: the newest dome film projector in North America is 13 years old, the oldest is 45. Operators must now face that fact that converting to digital is inevitable. Of the 98 films we show in active distribution this month, fully 22 are not available in any film format. Most of them were released in the last five years, suggesting that for some distributors and some films, striking film prints is no longer worth the effort and expense. (Ten mostly older releases are distributed only on film, and are not available in any digital format.)

Although Imax had not announced any new laser dome signings as this issue went to press, **Mike Day** of the **Science Museum of Minnesota** in St. Paul told *LFX* in September that he expected to sign for an IMAX system very shortly, and we have heard that an east coast dome is also on the verge of signing.

Imax is hosting a private demo for dome operators at the Tech on its official opening date of Nov. 11. This will provide a more realistic and challenging view of the system than the demonstration at Ohio's **Cincinnati Museum Center** last May (*see Summer 2018*), because it is a permanent installation of a production model and is in a larger dome than Cincinnati's 72 feet (22 meters).

Cincinnati has been closed for a major two-year renovation to the entire building and is set to reopen in November, but no announcement has been made about whether its 28-year-old IMAX film projector will have been replaced when the building opens again.

Imax has competition from two other major players: Evans & Sutherland and **D3D Cinema**. E&S offers a wide range of multi-projector fulldome systems with auto-alignment and auto-blending technology to maintain seamless images. For dome and flat-screen GS theaters that want a straight replacement of their film systems, and don't need 180-degree vertical coverage or real-time star-show capability, E&S recently introduced its AEOS line. An E&S laser system was demonstrated at the **Giant Screen Cinema Association**'s Dome Day in September (*see article on page 1*). In addition to hundreds of planetariums and fulldome theaters that E&S has equipped over the decades, it has already converted 12 former GS film domes to digital.

D3D offers a three-projector laser system developed by Christie and installed at the **Great Lakes Science Center** in Cleveland, OH, and the **Museum of Science and Industry** in Chicago, IL. That system also features auto-alignment and auto-blending, and an upgrade that will provide high dynamic range is reportedly in the offing.

These three companies now have a world-wide market of 49 film-based dome theaters to convert. Imax was the last to market with its system, but many theaters waited for years to see its entry before deciding. With the Cincinnati demo and now the first official installation of the IMAX dome laser, it should now be possible for most to make a selection and begin marshaling the resources needed to take the leap into digital.

The towers for the Hackworth's laser chillers.

Photo by John Angle.

Imax announces Q3 results

In the quarter ending Sept. 30, 2018, **Imax Corporation** posted a profit of $5.0 million ($0.08 per share) on revenues of $82.1 million, compared to a loss of $850,000 (–$0.01 per share) on revenues of $98.8 million in the third quarter of 2017. For the nine months ending in September, the company reported a profit of $21.2 million ($0.33 per share) on revenues of $265.4 million, up from a loss of $2.5 million (–$0.04 per share) on revenues of $255.2 million in the same period last year.

In this year's third quarter, Imax signed deals for 22 theaters, compared to 17 in the third quarter of 2017. It installed 37 IMAX systems in this year's Q3, compared to 51 last year. The current backlog stands at 635 systems. The worldwide roster of IMAX theaters stood at 1,346 as of Sept. 30, 2018, compared to 1,203 on Sept. 30, 2017.

In September, Imax announced a deal with China's **Wanying Cinema Line** — a state-owned theater chain — for 14 of its new commercial laser projection systems (*See Shorts, Summer 2018*). The first two opened in September.

In a conference call with analysts, and in previous public forums, CEO **Richard Gelfond** said that Imax is in conversations with streaming services such as Netflix to promote and "eventize" some original streaming content with screenings in IMAX theaters. However, in doing so he emphasized that "we would not consider violating the theatrical 'windows.'"

The idea of releasing a film in theaters simultaneously with a streaming service provoked a backlash from theater chains in 2015 when Imax proposed opening the sequel to ***Crouching Tiger, Hidden Dragon*** in IMAX theaters day-and-date with its Netflix release. Because this would have violated the exclusive "window" that theatrical exhibition has traditionally had, most multiplex operators refused to run the film.

nWave's new owners and deals

nWave Pictures has entered into a partnership with Dutch production company **MZM Productions** and Belgium's **Belga Productions**. As part of the deal MZM and Belga purchased a majority stake in nWave. nWave co-founder **Eric Dillens** told *InPark* that the purpose of the deal is to "expand our market reach into new areas and build our brand in multiple areas on multiple platforms." The company continues to seek production partners for live action GS documentaries.

MZM's **Matthieu Gondinet** is nWave's new COO and MZM founder **Matthieu Zeller** is nWave's new CEO and co-chair, a position he will share with Dillens. The company's other co-founders, **Ben Stassen** and **Caroline van Iseghem** will also continue on the production side of the company.

nWave recently acquired the exclusive theatrical and giant-screen distribution rights to three films produced by **Serengeti Entertainment**: ***Museum Alive 3D***, ***Amazing Mighty Micro Monsters 3D***, and ***Conquest of the Skies 3D***. The deal covers all versions and formats of the films and all territories except China, Taiwan, and Japan. Existing contracts made between theaters and Serengeti will remain in force.

The company is currently executive producing, creating animation for, and distributing ***Feathered Dinosaurs***, produced by **Saint Thomas Productions**, and ***Snow***, produced by **Ouragan Films**, for release in 2020.

Imax's deals with Universal, Sony

Imax Corporation has signed new multi-picture deals with **Universal Pictures** and **Sony Pictures** for feature films that will be released to IMAX theaters. The Universal deal encompasses ***First Man***, the biography of astronaut Neil Armstrong that opened in October, and ***Dr. Seuss' The Grinch*** and ***Mortal Engines***, which open in November and December respectively. Titles to be released in 2019 include **M. Night Shyamalan**'s ***Glass*** (Jan. 18), ***How to Train Your Dragon: The Hidden World*** (Feb. 22), and ***The Voyage of Dr. Dolittle*** starring **Robert Downey, Jr.** (Jan. 17, 2020). Also included is the next episode in the *Fast & Furious* franchise (date tba).

Universal Pictures

First Man *from Universal Pictures.*

The deal with Sony includes ***Venom***, which opened on Oct. 5, the untitled *Men in Black* spinoff (June 2019), ***Spider-Man: Far From Home*** (July 2019), and ***Jumanji: Welcome to the Jungle*** (December 2019).

Colligan to replace Foster at Imax

Megan Colligan, formerly head of marketing and distribution at **Paramount Pictures**, will become president of **Imax Entertainment** and vice president of **Imax Corporation** in early 2019, replacing **Greg Foster**, who has held those roles in the company since March 2001.

Megan Colligan

Colligan will be oversee and expand Imax's relationships and partnerships in the entertainment industry, develop domestic and international film slates, and manage global distribution and programming of the IMAX theater network. She will be responsible for the company's quality control and DMR process, and oversee its original

productions and alternative content, including streaming content.

At Paramount Colligan was responsible for the marketing campaigns of the *Transformers* and *Mission: Impossible* franchises, but according to *Variety* after leaving the studio last November she "alleged that gender bias and discrimination led to her exit." She told the publication that the matter was resolved "amicably," and that no lawsuit was filed.

She told *Variety* that she hopes to expand Imax's brand and content, adding "We have a chance to ask questions about what immersive entertainment means on a holistic level."

Foster has been planning his departure with CEO **Richard Gelfond** for at least 18 months. *Variety* reports that after last year's release of **Christopher Nolan**'s ***Dunkirk***, Foster "felt it represented the pinnacle of what he had been trying to do with the brand." He has not decided on a new position, and plans to take some time off after he leaves Imax early next year.

Colligan officially starts on Feb. 19, 2019, but will serve in a consulting role before that date.

Wyss joins Destination Cinema

Destination Cinema, Inc., has hired **Thomas Wyss** to advise on distribution of the company's library of GS films and potential new opportunities. Wyss was vice president of film distribution at **Imax Corporation** from 1998 to 2015.

Thomas Wyss

Asked about his achievements at Imax, Wyss declined to take individual credit, saying that they were "always the result of strong team efforts that relied very much on the support and guidance from theater operators." He tells *LFX* that on leaving Imax he was "fortunate enough to be in a position to take off some time" that he has spent with his young children, training to run marathons in under three hours (i.e., nearly 9 mph average), and learning about derivatives trading. Although he briefly considered working in this field, he "ultimately decided that this new skill should remain a fun and exciting pastime."

Since 1985, Destination Cinema has produced or participated in the production of eight GS films. In several cases, such as ***Grand Canyon: The Hidden Secrets*** (1985), ***Niagara: Miracles, Myths and Magic*** (1987), and ***Hearst Castle: Building the Dream*** (1996), the titles were made as signature films for GS theaters that DCI built at those locations. The films were distributed by DCI until 2005, when **National Geographic** took over. In 2015 **K2 Communications** began distributing most of them.

In March 2017 DCI reacquired distribution rights to seven titles, including the three mentioned above plus ***Hidden Hawaii*** (1992), ***To Be an Astronaut*** (1992), ***Whales: An Unforgettable Journey*** (1996), and ***Mysteries of Egypt*** (1998). (Another DCI production, ***Yellowstone*** (1994), will continue to be distributed by **Giant Screen Films**.)

In Memoriam: Lynn McCroskey

While the GSCA conference was in progress (*see article on page 1*) word came that **Lynn McCroskey** had died on Sept. 22 at age 69. McCroskey was the founder of **Sonics Associates**, the company that developed the IMAX digital sound system in the 1980s and eventually became the audio subsidiary of **Imax Corporation**.

Lynn McCroskey

After graduating from Alabama's Auburn University in 1971 with a degree in Mass Communications, McCroskey founded Sonics with a high school friend, **Jim Cawthon**, to sell and install sound systems for churches and small bands. In 1981 Sonics won bids for the sound systems for the new OMNIMAX theaters at the **U.S. Space and Rocket Center** in Huntsville, AL, and the **Fort Worth Museum of Science and History** in Texas. At the time, Imax did not provide sound systems as part of theater installations, but the quality of the Sonics systems in those and other theaters, including the **National Air and Space Museum** in Washington, DC, attracted the attention of the company's management. By 1988 Sonics was providing all IMAX sound systems and in the late 1990s the company was formally acquired by Imax.

Under McCroskey's leadership, Sonics developed the world's first digital sound system for theaters, before **DTS**, **Dolby**, and **Sony** introduced their systems. The company also developed a theater automation system for pre-shows that controlled slide projectors, lights, and the sound system.

After selling Sonics to Imax, McCroskey formed a new company, **Oxmoor Corp.**, that made consumer audio gear, and after that founded **Twist Technology** with his son **Kevin**, an audio-visual design and installation company.

McCroskey is survived by his wife, a brother, two sons, and three grandchildren.

In a tribute at the GSCA's Dome Day at the **McWane Science Center** in McCroskey's home town of Birmingham, AL, friend and business partner **Alvis Wales** said, "if it hadn't been for Lynn, I would certainly not be involved in this industry, so I owe him a lot for that and many other things. There's also a good chance that high-quality sound would not have become such a big part of the IMAX Experience so early without his influence and drive. In my opinion, Lynn was the essential part of establishing IMAX sound as the best sound in cinema."

Kate Piasecka of IMAX Theatre Melbourne in Australia.

*(from **GSCA** on page 1)*

Mark Bretherton, head of distribution for Australia's **December Media Distribution**, explained that the industry is very collegial because most institutional GS theaters are in different cities, and therefore do not directly compete with each other. Although producers do compete, they recognize that the success of one leads to the success of the others: "Cinema-going begets cinema-going."

Another important point, he said, is that no two theaters are the same. Although the two biggest GS films this summer were Imax's ***Pandas*** and **MacGillivray Freeman Films**'s *America's Musical Journey*, the **California Science Center** in Los Angeles booked a 20-year-old film, ***Mysteries of Egypt***. Why? Because the museum was also hosting an exhibit on King Tut. The distributor, **Destination Cinema**, digitized the film specifically so CSC could show it on its IMAX laser system. Similarly, in San Diego, home to a major naval installation and an aircraft carrier that has been turned into a museum, the **Fleet Science Center** is showing **Stephen Low**'s ***Aircraft Carrier***. "Each theater approaches programming in its own unique way, according to its location. Some people will tell you, 'Oh, no, that film was a disaster. Didn't work for us. You'll turn to the next person, who'll tell you, 'It was amazing. We've been showing it for ten years, and I don't know when we'll stop.'"

Kate Piasecka, of the **IMAX Theatre Melbourne** in Australia, was behind that theater's launch of Imax's ***A Beautiful Planet*** in 2017, which won the GSCA award for Best Film Launch by a Theater last year. She spoke about the marketing plan for this year's opening of *Pandas*. The theater is a state-owned commercial theater housed in a museum complex, with the largest screen in the world and both IMAX 15/70 film and IMAX laser projectors.

Nearly 9% of Melbourne's population identifies as Chinese-Australian, so in booking *Pandas*, they knew that they could appeal to that audience as well as the general family audience. She arranged for **Jake Owens**, the American biologist featured in the film, to attend the opening. She also established partnerships with the Adelaide Zoo, home to the only giant pandas in Australia, Melbourne's largest newspaper, and a Chinese airline that donated a trip to China, valued at AUD$40,000 (US$29,000), that was given away as a prize to a lucky family.

Owens participated in premiere events for members, media and stakeholders, teachers, and STEM students. "Jake opened all of those events, he answered questions until we ran out of questions. He was a great sport. Lots of people snapping pictures for social media, it was all happening." He also spoke to classes in 22 schools from the theater via a live video hookup, spreading the word about preserving the pandas.

Piasecka pointed out that partners can help each other with their social media channels and in-kind brand support "without blowing out your budget. Know the value of your brand."

Producer Michael Daut (left) and cinematographer James Neihouse filming in Los Angeles with four of the five high-res cameras used for the 8K Digital Camera Comparison, featured in the Technical Session.

Her top tips for a "cracking film launch campaign" included knowing your audience, how they best like to be reached and what they like; knowing your points of difference, "what is so good about your theater," and constantly repeating that message; being consistent in your messaging, "don't chop and change with your brand campaign;" start planning well ahead of the opening; and think big!

Technical Session

The Technical Session consisted of five presentations dealing with production and exhibition technologies.

The 8K Digital Camera Comparison presented the results of a shoot conducted in the Los Angeles area in September by cinematographer **James Neihouse** and producer **Michael Daut**, with assistance from **Rick Gordon** of **RPG Productions.** The footage was processed by **Fotokem Industries**.

The test used five of the latest high-resolution digital cinema cameras (6K or higher) to shoot a variety of challenging scenes — low light, high-contrast, indoors, night-time, etc. — to highlight their strengths and weaknesses. Wherever possible, the footage was captured simultaneously, side-by-side.

The cameras tested were:
Arri Alexa 65
Canon C700 Full Frame
Panavision DXL2
Red Weapon Monstro Vista Vision
Sony Venice

In the presentation, shots of each scene taken by each camera were shown one after the other, at first blown up to full screen height by cutting off the left and right sides of the image. The cameras were not identified in this sequence, so the audience could evaluate them without prejudice. After that, the same shots were shown in the cameras' native aspect ratios, without any cropping or blowing up. Because the aspect ratios varied, they were identified in this step, since the different frame shaped provided hints to their identities.

Presenters Neihouse, Daut, and Gordon pointed out differences in color reproduction, areas of digital noise, and other minor issues, but agreed that all of the cameras performed excellently and the image quality differences between them were relatively small and subtle. It was not possible to say that one was better than another, only that one might be better than another in a specific situation, because of size, weight, or some other unique characteristic.

Improving aerial photography. In 35 years as an aerial director of photography, **Peter Degerfeldt**, of **Blue Sky Aerial** in Sweden, has logged 2,500 hours flying in helicopters, 100 hours in jet fighters, and made 4,000 parachute jumps.

Peter Degerfeldt of Blue Sky Aerials in Sweden.

New technologies make aerial photography much safer, smoother, and easier to accomplish. No longer are cameras simply strapped to the nose of a helicopter or airplane, with no way to move them except by moving the aircraft. No longer do camera operators have to dangerously lean out of the open door of a chopper. New gimballed camera mounting systems permit six-axis remote control by an operator seated safely inside the aircraft. He said it is important when shooting aerials to select experienced DPs and reputable helicopter companies that have the proper experience and certifications.

Degerfeldt showed stabilized footage of a jet fighter shot with his GSS 520 camera mount from a Sabreliner business jet at 400 kts (460 mph, 736 kph). The system can use virtually any camera and lens combination currently available, including the Red Dragon 6K.

Drones are becoming more widely used for GS films, specifically for close aerials, although the larger cameras needed for GS shooting require larger drones.

Multi-projector alignment systems were discussed by **Gord Harris** on behalf of

*(see **GSCA** on page 8)*

Director Peter Chang filming in Venice with the Sony Venice camera on a Ronin stabilizing rig, operated by Pedro Guimaraes.

Sony Professional Solutions America

Evans & Sutherland and Christie temporarily installed a digital dome projection system in the McWane Science Center's IMAX Dome theater using three pre-release units of a new Christie RGB laser projector.

*(from **GSCA** on page 7)*

Christie. He spoke about the technologies involved in aligning and blending images from multiple projectors on a single flat or dome screen, such as the three-projector Christie/D3D system at the **Great Lakes Science Center** in Cleveland, OH (*see December 2016*), and the ten-projector Evans & Sutherland system recently installed at the **Liberty Science Center** (*see Shorts, February 2018*). To fill a dome screen, images from the rectilinear digital micro-mirror devices (DMDs) in digital projectors must be "curved intelligently," or "warped," so that the images from the adjacent projectors match and maintain proper geometry. Where images overlap, they have to be blended so that the brightness in the overlapping areas is uniform with the rest of the image.

Before the advent of automated alignment and blending systems, it could take days to painstakingly manually adjust projectors using reference grids. "It was tedious in the extreme," and subject to drifting out of alignment over time for a multitude of reasons. Christie's auto-alignment and auto-blending system, known as Mystique, uses between three and five machine-vision cameras and test patterns to adjust each of the projectors — down to the pixel level — quickly and automatically. Alignment takes only about 15 minutes and can be performed daily, weekly, or whenever needed.

Sony Venice Camera. Director **Peter Chang** showed footage he shot for Sony to demonstrate its newest Cinealta Venice camera with a full-frame 6K (6048x4032) sensor, for a 1.5:1 aspect ratio, closer to the 1.43 ratio of 15/70 film than any other digital cinema camera. The footage was shot at a festival in Venice, Italy, that featured wildly colorful costumes. He said that the camera is very simple and intuitive to use, and that the internal neutral density filters made it easy to move from set up to set up with changing lighting conditions. The 4K version of the video is available online at tinyurl.com/changvenice.

Digital Camera Color Reproduction. Physicist and filmmaker **Pawel Achtel** presented the results of a test he conducted, in cooperation with the **Australian Cinematographers Society**, of the color reproduction capabilities of four digital cinema cameras:

Arri Alexa LF
Panavision DXL2
Red Weapon Monstro
Sony Venice

Achtel used a laboratory spectroscope to create an accurate and objective test of the color range each camera can reproduce. The spectroscope projected all visible monochromatic colors directly onto the cameras' sensors, eliminating variables such as lighting and lenses. The surprising results indicated that none of the cameras was capable of reproducing the full Rec. 2020 color gamut, the newest and widest standard being promoted for digital cinema and television, and only three of the four could fully reproduce the lower current standard, Rec. 709. The Sony Venice was able to capture the DCI-P3 gamut, which is broader than Rec. 709, but less than Rec. 2020. The Arri and Red cameras could capture all of the colors of Rec. 709, but the Panavision camera couldn't.

Achtel pointed out that most scenes do not include all of the colors in the Rec. 2020 gamut, so cameras that do not meet the spec can still be useful for many kinds of shooting. But as projectors and TVs increasingly offer the full range of colors, it will become more important for cameras to be able to do so as well. (*A future issue of* LF Examiner *will include an article by Achtel explaining the various color standards and outlining the test procedures and results more fully.*)

Awards Ceremony

The GSCA and Imax Corporation presented a number of awards and recognized several pioneers in the giant-screen industry in a ceremony held on Friday, Sept. 21. It presented the Outstanding Achievement Award to **Toni Myers**, whose career at Imax Corporation began at the very beginning with ***North of Superior*** (1971) on which she served as editor, and has continued through to ***A Beautiful Planet*** (2016) for which she was director, producer, writer, and editor.

The association also presented a posthumous Outstanding Achievement Award to producer **Jonathan Barker**, of **SK Films**, who died in June (*see Summer 2018*).

In the film awards, ***Backyard Wilderness***, produced by **Archipelago Films** and distributed by SK Films, swept four categories: Best Film, Short Subject, Best Film for Lifelong Learning, Best Cinematography, and Best Visual Effects. It was directed and produced by **Susan Todd** and **Andrew Young**.

MacGillivray Freeman Films' ***America's Musical Journey*** won the awards for Best Sound Design and Best Original Score.

Christopher Nolan's ***Dunkirk*** won the award for Best Film, Feature Length.

The other GSCA awards were:

Best Theater Marketing Campaign: IMAX Theatre Melbourne, Australia, "20 Years of IMAX" Campaign

Best Marketing Campaign by a Distributor: ***Pandas***, Imax Corporation and **Warner Bros.**

Best Film Launch by a Theater: IMAX Victoria in the Royal BC Museum, *America's Musical Journey*

Best Educational Program: **Discovery Place**, Charlotte, NC, "The Year of the Engineer" Program

Big Idea, given for the most original and effective idea of a single marketing promotional idea, publicity stunt, or unusual marketing activity (tie):

IMAX Melbourne, Sichuan Airlines partnership for *Pandas*

Backyard Wilderness Campaign, "It's not just a film—it's a movement."

Big Shoe, selected by GSCA staff to recognize exemplary volunteers: **Andrew Oran** and the team at FotoKem.

Imax Corporation presented the following Maximum Image Awards at the ceremony:

Hall of Fame, voted by the IMAX theater networking and honors a giant screen film that is at least 10 years old: ***Bugs!***, produced by **Principal Large Format**.

Best IMAX Booth:

Cineworld Broughton and IMAX, Broughton, UK

Hollywood Megaplex Plus City & IMAX, Pasching, Austria

Zhejiang Wandi & IMAX, Lishui, China

Honorable Mentions:

360 Kuwait & IMAX, Kuwait City, Kuwait

Cineworld Sheffield & IMAX, Sheffield, UK

Kinepolis Brussels & IMAX, Brussels, Belgium

Chief Quality Officer Award of Distinction: **David Booty**, IMAX Melbourne

Imax also presented a special tribute to **David Keighley**, IMAX Chief Quality Guru and President Emeritus, and **Patricia Keighley**, IMAX Chief Quality Guru, for more than 45 years of groundbreaking work in presentation excellence and strategic development.

Backyard Wilderness *won four GSCA Awards. L to r: Andrew Young, Susan Todd, Michael Male, Myles Connolly, Wendy MacKeigan.*

Dome Day

On Monday, Sept. 24, the McWane Science Center in Birmingham hosted Dome Day, featuring screenings of ten new films on the center's 79-foot (24-meter) IMAX Dome. The first three were presented on a three-projector digital system temporarily installed by Evans & Sutherland using pre-production units of a new fiber-coupled RGB laser system from Christie that had never been demonstrated publicly before. (Production units will start shipping early next year.) Mounted in portrait format (i.e., on their sides) at the back of the theater, they projected a 6K by 4K image with levels of brightness and resolution unmatched by any single-projector film or digital system. E&S's proprietary auto-alignment and blending systems produced a seamless image that can fill the same screen area covered by 15/70 film. (The temporary installation in Birmingham, which placed the projectors inside the theater instead of further back in the rear gallery, covered a slightly smaller portion of the dome.)

David and Patricia Keighley were honored by Imax Corporation for their long service to the industry.

Christie's **Larry Paul** made the case for higher frame rate as a way for GS theaters to differentiate themselves from conventional cinema, pointing out that the new family of RGB laser projectors the company is about to release, including the ones in the demo, are all capable of at least 120 fps, five times higher than the current GS standard of 24 fps, which originated from its film heritage. (IMAX laser systems are not capable of frame rates higher than 24 fps at full 4K resolution, and the company has suggested that it does not intend to upgrade them in that area.) Paul also said that Christie has systems that can achieve 480 fps, a capability he said had never before been publicly disclosed. Although such systems are intended for specialty clients (probably the military) and not necessarily GS theaters, he said that the human visual system can discern differences at such high frame rates.

The capabilities of the system were highlighted with material mastered in 8K from 15/70 films and 6K and 8K digital cameras, including a shortened version of the 8K Digital Camera Comparison that had been screened in the Technical Session in Chattanooga.

The GSCA's next meeting will be the Film Expo and Filmmaker's Symposium, to be held in Los Angeles, March 11–13, 2019. For more information, visit giantscreencinema.com.

New Films Screened at the GSCA Conference

America's Musical Journey

MacGillivray Freeman Films, Inc.
Release Date: 2/16/2018
Format: 3D
Length: 40 min.

*America's Musical J*ourney celebrates the unique diversity of cultures and creative risk-taking that characterize America, as told through the story of its music. Follow Grammy Award-nominated singer/songwriter Aloe Blacc as he traces the roots of America's music and follows the footsteps of Louis Armstrong through the colorful locales where American music was born. Visiting cities such as New Orleans, Chicago, New York, Nashville, Memphis, Miami, and more, audiences will experience paddle-wheeling up the Mississippi Delta, flash mob dancing in Chicago, and skydiving with Elvis impersonators in scenes shot exclusively for the giant screen. Along the way, they'll discover the unique collision of cultures that gave birth to America's music, culminating in a one-of-a-kind blend of sound, culture and innovation unlike anywhere else in the world.

Apollo 11: First Steps

Statement Pictures, LLC
Release Date: 3/31/2019
Format: 2D
Length: 40 min.

Timed for release on the 50th anniversary of the first lunar landing, *First Steps* is a direct-cinema historical experience of the dramatic Apollo 11 mission. With the assistance of NASA, the National Archives, and a global team of researchers and archivists, the film uses never-before-seen footage from 1969 and tells the story entirely through archival materials, giving audiences a thrilling firsthand experience of humanity's first trip to another world. From the Emmy Award-winning filmmakers of *Dinosaur 13* and CNN Films, *First Steps* will be available Summer 2019.

Australia's Great Wild North

Wild Pacific Media
Release Date: 6/28/2018
Format: 2D
Length: 41 min.

Few places on earth remain as wild and pristine as the Top End of Australia. It is a land that time forgot. A place with some of the richest wetlands and oldest rainforests where ancient people lived in harmony with this wild land and her beasts. The largest dinosaurs called this land home and left their footprints in these ancient rocks, and one of their deadly relatives still lives there today. Come on this epic scientific adventure with Tommy, our native Aboriginal guide, as we venture through some of the world's most beautiful landscapes, and travel deep into saltwater crocodile country. The film is not currently available in 15/70 3D, but plans will be made for it in the future.

Backyard Wilderness

Archipelago Films
Release Date: 3/21/2018
Format: 3D
Length: 43 min.

Backyard Wilderness will astound and entertain viewers with the unexpected wonders of nature that are right under our noses: in our own backyards. Spanning a seasonal year around a suburban home, the film displays a stunning array of unique wildlife images and behavior. Captured by cameras mounted inside dens and nests, and moving along the forest floor and pond bottom, we reveal the lives of its inhabitants in rare and breathtaking intimacy. We follow Katie, a young girl, and her modern family living next to the woods who are blind to the real-life spectacle around them, absorbed by an array of electronic devices in their busy lives. Katie gradually discovers the intricate secrets that nature has hidden so close to her front door and we experience the joy she finds in her interactions with this new world. The film reminds us that Wi-Fi is not the only connection that matters and that, sometimes in ordinary places, you can uncover extraordinary things that could transform you forever. You just need to step outside.

Cuba

Golden Gate 3D
Release Date: 2019
Format: 3D
Length: 40 min.

Cuba tells the powerful story of a land preserved in time, yet poised today on the cusp of dramatic change. The island nation's vibrant culture, meticulously maintained colonial architecture, and pristine ecosystems all provide a vivid window into the past. *Cuba* will transport audiences across breathtaking island landscapes, under the ocean surface to dazzling reefs and groundbreaking scientific research, and into the streets throbbing with music and dance in the heart of Havana. Through the eyes of Cuban artists, historians, and scientists, audiences will have a rare opportunity to explore this amazing country at a pivotal moment in its history. Filmed for the first time in 3D and exclusively for the giant screen, the film will reveal why Cuba continues to stir the imagination of the world.

Great Barrier Reef

December Media
Release Date: 7/1/2018
Format: 3D
Length: 40 min.

No structure built by living creatures compares to the size and majesty of the Great Barrier Reef, spanning more than 1,400 miles off the coast of Australia and home to countless unique species of aquatic life. Narrated by acclaimed Australian actor Eric Bana, *Great Barrier Reef* explores the awe of this natural environment and introduces the visionaries and citizen scientists who help us better understand and protect the reef. Grab your mask and snorkel and join an unforgettable adventure with majestic manta rays and sea turtles, witness the birth of baby seahorses, participate in a coral watch expedition, and discover the exotic splendor of fluorescent corals at night as *Great Barrier Reef* captures the natural beauty and exquisite strangeness of this awesome and vibrant living world.

Great Bear Rainforest

Spirit Bear Entertainment
Release Date: 2/15/2019
Format: 3D
Length: 40 min.

Filmmakers Ian McAllister and Jeff Turner and executive producers Kyle Washington and Byron Horner of Spirit Bear Entertainment are partnering with MacGillivray Freeman Films to distribute a beautiful giant-screen film about one of the rarest animals on Earth: the fabled all-white Spirit Bear. These remarkable creatures live in the lush temperate rainforests of British Columbia on Canada's west coast, where they hold almost mythic status among the region's indigenous people. Shot exclusively for the giant screen, *Great Bear Rainforest* (working title) will offer a remarkable journey into one of the planet's most spectacular wildernesses—a land of wolves, grizzly bears, humpback whales, sea lions, sea otters, and others—as it explores the secret world of the Spirit Bear.

Hidden Pacific

Tandem Stills + Motion
Release Date: 2019
Format: 3D
Length: 40 min.

Hidden Pacific will bring the Pacific Ocean's protected and remote national wildlife refuge islands and marine national monuments to giant-screen cinemas. The film captures the beauty of these emerald islets, the conservation efforts to restore their ecosystems, and the diversity of life on both land and reef. Produced in partnership with the U.S. Fish & Wildlife Service.

Hurricane

Ouragan Films
Release Date: 2/1/2017
Format: 3D
Length: 44 min.

This is the true story of a 15,000-kilometer journey in the footsteps of one of the most devastating natural events on our planet: the Atlantic hurricane. Our protagonist is both shatteringly destructive and vital to life on earth. At its conception it is just a breeze. As it sweeps across the African Sahel it becomes a life-giving monsoon before setting out across the Atlantic as a deepening depression. The hurricane is the film's main character, but the supporting cast are the men, women, plants, and animals that it encounters on its journey and affects in some way, for better or for worse. We will experience the storm in 3D. Serene and exquisitely beautiful from space, at ground level in the face of the screaming wind, it is nothing less than terrifying.

In Saturn's Rings

SV2 Studios
Release Date: 5/4/2018
Format: 2D
Length: 40 min.

Narrated by LeVar Burton, *In Saturn's Rings* is a grand tour of the universe starring Saturn. Over 7.5 million mostly unseen images from the Cassini-Huygens Mission to Saturn, the Sloan Digital Sky Survey, the Hubble Telescope and Milky Way time lapses are brought to life in a ground-breaking epic immersive journey across space and time. From the earliest images after the Big Bang to the final photographs Cassini took before plunging to die in Saturn's clouds, *In Saturn's Rings* is, like space exploration itself, a journey of the heart, mind and spirit that moves audiences with awe-inspiring images and powerful music. *In Saturn's Rings* contains some of the most amazing space footage ever, including a 10-day-and-night, five-camera Milky Way time lapse sequence, a stunning view of millions of individual galaxies in a single frame, and a jaw-dropping flyover over Saturn's moon, Titan, connected with locations on Earth with never-before-seen imagery.

Mountain Quest

Stranger Than Fiction Films
Release Date: 6/18/2018
Format: 2D
Length: 37 min.

A lone climber, suspended hundreds of feet in the air, struggles to find the next finger hold, defining progress in inches. The dramatic visuals immerse us in a gripping contest of human determination versus the reality of gravity's potent grip. *Mountain Quest* explores the precarious relationship of humanity's quest to scale some of the world's highest places, while also revealing the scientific and technological advances that have enabled us to conquer these peaks, exposing the heartbeat of the human soul. A tapestry of jaw-dropping action, combined with rich STEM content. For example, physics of the real world: how climbing is a tug-of-war between friction and gravity, while skiing involves the same battle of forces in reverse. Educational insights about the engineering of climbing gear and skis, and the aeronautical effects of a wingsuit, are seamlessly integrated with dramatic visuals and action. The film is narrated by Willem Dafoe.

Oceans: Our Blue Planet

BBC Earth
Release Date: 3/16/2018
Format: 3D
Length: 40 min.

Oceans: Our Blue Planet takes us on a global odyssey to discover the largest and least explored habitat on earth. New ocean science and technology have allowed us to go further into the unknown than we ever thought possible. From the coastal shallows to deeper, more mysterious worlds, we reveal the untold stories of the oceans' most astonishing creatures. Dolphins leap for joy through the waves as we begin our journey into the blue. Our first stop is the coral reefs, where we meet fascinating characters like the ingenious tusk fish that uses a tool to open its food. In the great forests of the sea, we find a cunning octopus who shields herself in an armoury of shells to hide from predators. As we journey through our oceans, we share these extraordinary discoveries and uncover a spectacular world of life beneath the waves.

Pandas

Imax Corporation
Release Date: 4/6/2018
Format: 3D
Length: 42 min.

Pandas, an IMAX original film for the whole family, is a story of hope, friendship and survival. At China's Chengdu Panda Base, the scientist leading a successful captive breeding program is ready to take a bold new step. Inspired by the work of a Black Bear rehabilitator in New Hampshire, a team of U.S. and Chinese scientists collaborate on an innovative project to release captive-born pandas into the wild, using methods never previously tried with pandas.Captured with IMAX cameras, the film follows the journey of a young cub named Qian Qian as she leaves the comfort of the panda base behind and prepares for a life-changing journey into the misty mountains of Sichuan. *Pandas* is directed by David Douglas and Drew Fellman, the filmmakers behind *Born To Be Wild* and *Island Of Lemurs: Madagascar*. Fellman wrote and produced, with Douglas serving as director of photography.

Planet Power

N3D Land Films
Release Date: 3/22/2018
Format: 3D
Length: 38 min.

Planet Power explores the history of electricity, from the first spark created by man's hand to today's industrial power plants. We meet scientists who changed the world, like Faraday, Franklin, and Tesla, and we glimpse the future as Solar Impulse becomes the first plane to complete a round-the-world flight powered only by the sun. With a mix of chalk animation, CGI, archival footage, and spectacular aerials, the film also explores the challenges ahead: how to meet the growing energy needs of our industrialized world, while also protecting the health of our planet.

The Story of Earth

December Media
Release Date: 5/31/2018
Format: 3D
Length: 39 min.

Born from dying stars, it was sculpted by violent collisions in space. Yet, in an epic journey, this hostile ball of molten rock transformed itself into a nurturing environment. From it emerged forms of life, none of which have been found anywhere else in the universe. That planet is not millions of light years away, either. You are standing on it right now. It is Earth.

Touch the Stars

Afterglow Studios
Release Date: 2018
Format: 3D
Length: 40 min.

Touch the Stars centers on mankind's probes used in exploration of our solar system and the galaxy beyond. The film traces the path to space through the history of NASA's probes, orbiters, and landers, from the heart of our solar system to the surface of the other planets and moons, to the grand tour of the Voyager spacecraft through the outer planets and beyond. Created with the latest imagery and scientific data, *Touch the Stars* uses inspiring real footage and three-dimensional vistas of our solar system and interstellar space to transport audiences to planets and distant stars alongside these intrepid robot explorers. *Touch the Stars* will be released in stunning 8K resolution.

Turtle Odyssey

Definition Films
Release Date: 7/13/2018
Format: 3D
Length: 45 min.

Sea turtles are some of Earth's most ancient and majestic creatures. For over 100 million years, they have traversed the seas, surviving multiple mass extinctions and playing critical roles in maintaining healthy, marine food webs. Not only do these friendly animals captivate us as they peacefully glide through the ocean, but their personal journeys of survival are equally fascinating. These remarkable reptiles will traverse thousands of kilometers of open ocean for as long as 50 years and then, from half a world away, migrate with mysterious precision back to the very beach where they were born, to lay eggs that are the foundation of the next generation. With the turtles guiding us, our crews voyaged the same thousands of kilometers to capture the wonders of their habitats. Sea turtles remind us just how interconnected we all are in this amazing world and audiences will be moved to cherish them even more.

Volcanoes

Digital Crossing Productions
Release Date: 10/31/2018
Format: 3D
Length: 40 min.

Volcanoes: The Fires of Creation is a tale of science, culture, and thrilling adventure. Earth is a planet born of fire. For billions of years volcanoes have helped create the world we know. The continents, the air we breathe, and even life itself, all have their origins in fire. These processes have created extraordinary ecosystems and wildlife habitats, from the home of mountain gorillas in Central Africa, to the shores of Hawaii, to the Serengeti and beyond, and continue to do so to this day. With over 500 active volcanoes, our Earth is bursting at the seams with these forces of mass construction. The story of volcanoes is the story of Earth's creation and the story of us. With explorer Carsten Peter, dodge boulders at the edge of an active volcano in Indonesia, descend to a lava lake in Vanuatu, visit a ghost town following an eruption, and look on in awe and wonder at volcanic mineral deposit fields in Ethiopia.

Films in Production

Ancient Caves

Oceanic Research Group
Release Date: 10/31/2019
Format: 2D
Length: 40 min.

Dr. Gina Moseley is a scientist on a mission as she travels the world exploring vast underground worlds in her quest to unlock the secrets of the Earth's ancient climate in the most unlikely places: caves. Her need for underwater samples leads her to world-renowned cave diver Brian Kakuk. Brian can go where Gina can't, and together they can reach places very few humans will ever go. *Ancient Caves* brings science and adventure together as the team embarks on an expedition to some of the world's most extreme caves, both above and below the water, to learn how fast the climate can change, and how it has affected human civilization. *Ancient Caves* is being shot in dome-native format.

Angkor: The Lost Empire of Cambodia

Wild Pacific Media
Release Date: 3/31/2019
Format: 3D
Length: 40 min.

A civilization that rose to become the envy of the world, only to disappear: a mystery waiting to be unlocked by modern archaeologists, scientists, and explorers. Following an epic spree of religious building whose scale and ambition rivals the pyramids of Egypt, Angkor is the scene of one of the greatest vanishing acts of all time. The Khmer kingdom lasted from the 9th to the 15th centuries and at its height dominated a large swathe of Southeast Asia, from Myanmar in the west to Vietnam in the East. As many as one million people lived in Angkor, the capital, which sprawled across an area the size of New York's five boroughs, making it the most extensive urban complex of the pre-industrial world. By the late 16th century, the once resplendent capital of the empire, with its thousands of elaborate temples and religious monuments, was being overrun by the surrounding jungles. Many experts have attempted to provide answers, and theories abound. Thirteen hundred carved inscriptions survive on temple doorjambs, but the Khmer people of Angkor left not a single word explaining their kingdom's collapse. This will be a visually stunning film: an epic adventure where science, mystery, and ancient civilization intersect.

Antarctica: A Year of Discovery

BBC Earth
Release Date: 2020
Format: 2D
Length: 40 min.

Antarctica is the most extreme continent on our planet — higher, colder, and even drier than any other landmass on Earth — and although it is thousands of miles away, what happens there affects every single one of us. Temperatures can plummet to -70C, freezing its ocean waters, yet even in this remote, hostile habitat there is an abundance of life and beauty. Many creatures thrive above and beneath the ice, but exactly how do they survive in such an extreme environment? To answer that question, we will follow the story of a year in Antarctica, because more than anywhere else on our planet, life here is governed by the seasons. Only then can we discover how animals manage to survive in this hostile but beautiful land: Earth's last great wilderness.

Asteroid Impact

Imax Corporation
Release Date: 10/31/2019
Format: 3D
Length: 40 min.

Asteroid Impact will reveal the origins of asteroids and the effects of previous Earth impacts. Delve into the threat these celestial masses pose to our planet today, and examine how we monitor their trajectory in order to stay out of their deadly path. Through a tour of the solar system and a close look at the "city-buster" asteroid, Apophis, this new IMAX documentary will tell you everything about the massive space rocks that shape our universe through amazing and devastating collisions.

Back From the Brink

Sean Casey Productions
Release Date: 10/31/2019
Format: 3D
Length: 40 min.

Back from the Brink, from award-winning giant screen director Sean Casey, is an immersive film that will explore extraordinary true stories of animals rescued from the brink of extinction. Audiences will meet California's endearing Channel Island Fox, the smallest canid in the world, imperiled by the introduction of Golden Eagles to their only habitat. We will witness the stunning migration of the Christmas Island Red Crabs, thinned dangerously by the Crazy Ant invasion. And, finally, we journey to Yunnan, China, to find the enigmatic Golden Monkey, high on the most-endangered primates list, living in one of the most biodiverse and remote regions of the world. *Back from the Brink*, with real and inspiring conservation stories, will renew your hope that our threatened planet and all its inhabitants can be saved.

Cool Cities

Wild Pacific Media
Release Date: 2019
Format: 3D
Length: 40 min.

Cool Cities is an immersive global journey that explores how science and technology together with a cultural renaissance are opening the door to a sustainable future in many of the world's most iconic mega-cities. The film will offer a practical vision for more livable cities that all people of all continents can connect with and be part of. We will showcase the human stories and real-world solutions that provide hope for a planet that can not only survive, but thrive for countless generations to come.

Expedition Chesapeake

Whitaker Center for Science and the Arts
Release Date: 3/20/2019
Format: 2D
Length: 44 min.

Imagine a 64,000-square-mile expanse encompassing portions of six states and filled with the stunning natural beauty of the largest estuary in North America. This is *Expedition Chesapeake, A Journey of Discovery*, presented for the first time on the giant screen. The film tells the story of the Chesapeake Bay through the lives of our ancestors and our neighbors. Our expedition leader, celebrity naturalist Jeff Corwin, introduces us to people from all walks of life who are doing their part to protect and preserve this national treasure. Our journey through the Chesapeake watershed explores the intricate web of relationships among people, plants, animals, land, and the most critical natural resource, water. We discover how seemingly small efforts to improve the natural environment where we live also improve the health of the entire Bay. These lessons can be equally applied to watersheds across the nation and around the world.

Fantastic Beasts: The Crimes of Grindelwald

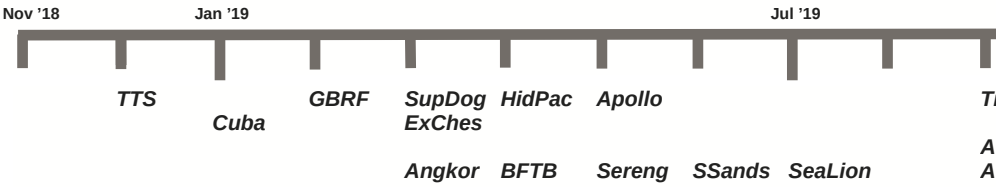
Warner Bros.
Release Date: 11/16/2018
Format: 2D
Length: 120 min.

Magizoologist Newt Scamander joins forces with young Albus Dumbledore to prevent the devious Gellert Grindewald from raising pure-blood wizards to rule over all non-magical beings.

First Man

Universal Pictures
Release Date: 10/12/2018
Format: 2D
Length: 120 min.

First Man is a biographical adventure space film directed by Damien Chazelle, based on the true story of NASA's mission to land a man on the moon, focusing on Neil Armstrong and the years 1961-1969.



* New listing.
All films are 3D unless noted; underlined titles are 2D.
Updated information is printed in bold.
Unless noted, all films run about 40 minutes.

Touch the Stars
Afterglow Studios; distributor: BIG & Digital; director, producer: Luke Ployhar; script: Scott Pearson. ***Release: December.***

Cuba
Golden Gate 3D; distributor: Giant Screen Films; director: Peter H. Chang; producers: Peter H. Chang, Violet Angell, Robert Mooring; DPs: Peter H. Chang, Christopher Doyle HKSC, Peter Zuccarini; script: Mose Richards, Robert Mooring; executive producers: Neil Nightingale, Mike Day, Jonathan Rowe, Kelyn Brannon. Cast: Patricia Torres, Eusebio Leal, Daria Siciliano, Fernando Bretos. ***Release: early 2019.***
- **Film will be converted to 3D.**
- **Educator's guide, marketing materials, and social media assets are being produced.**

Great Bear Rainforest *(wt)*
Spirit Bear Entertainment; distributor: MacGillivray Freeman Films; directors, producers, DPs, script: Ian McAllister, Jeff Turner; ***score: Hans Zimmer;*** *executive producers: Byron Horner, Kyle Washington. Release: Feb. 15, 2019.*
- Principal photography is complete. Post production has begun.

Superpower Dogs *(wt)*
Cosmic Picture; distributor: Imax Corporation, Cosmic Picture; director: Daniel Ferguson; producers: Taran Davies, George Duffield, Dominic Cunningham-Reid, Daniel Ferguson; DP: Reed Smoot; script: Daniel Ferguson; ***score: Michael Cusson****. Release: March 9, 2019.*
- **Picture is locked. Music, color timing, sound design and visual effects work under way.**

Expedition Chesapeake
Whitaker Center Productions, Via Studios Global; distributor: Cosmic Picture; director: Greg Matosky;producers: Tom Curra, Greg Matosky; DP: James Neihouse. Cast: Jeff Corwin. 2D. Release: March 20, 2019.
- Principal photography is complete.
- Post production is under way.

Hidden Pacific
Giant Screen Films, Tandem Stills + Motion; distributor: Giant Screen Films, D3D Cinema; director, producer: Ian Shive. ***Release: April 22, 2019.***
- Post production, narration, and editing are under way.

Apollo 11: First Steps *(wt)*
Statement Pictures, CNN Films; ***distributor: MacGillivray Freeman Films****. 2D.* ***Release: May 17, 2019****.*

Angkor: The Lost Empire of Cambodia
(formerly Lost Empire of Angkor)
Wild Pacific Media; distributor: K2 Communications; director, writer: John Weiley; producers: Murray Pope, Dave Gross. ***Release: Spring 2019.***

Back From the Brink
Sean Casey Productions; distributor: Cosmic Picture; director, DP: Sean Casey; producers: Jen Casey, Sean Casey; script: Mose Richards. Release: Spring 2019.

Secrets of the Sands
Atlantic Productions; distributor: Serengeti Entertainment. Release: Spring 2019.

Secrets of the Serengeti
Digital Crossing Productions; distributor: SK Films; director, DP: Michael Dalton-Smith; producers: Michael Dalton-Smith, Jonathan Barker; script: Michael Dalton-Smith, Wendy MacKeigan; executive producer: Jonathan Barker. Release: Spring 2019.

Sea Lion: Life by a Whisker
Definition Films; distributor: tba. Release: Summer 2019.

Train Time *(wt)*
Stephen Low Company; distributor: Stephen Low Company; director, script: Stephen Low; producers: Pietro Serapiglia, Stephen Low; executive producer: Paul Globus. 2D. ***Release: September 2019.***
- **In 2018 have filmed railroad network operations center in Fort Worth, TX, a wide range of yard operations, and helicopter aerials of train action across a range of states, including spectacular live steam locomotive footage and freight trains in Illinois, Missouri, Oregon, and Washington.**

Ancient Caves *(wt)*
Oceanic Research Group; distributor: MacGillivray Freeman Film Distribution; director, DP: Jonathan Bird; producers: Jonathan Bird, Art Cohen; script: Jonathan Bird, Art Cohen; score: Bruce Zimmerman; executive producer: Shaun MacGillivray. Cast: Dr. Gina Moseley, Dr. Larry Edwards, Brian Kakuk, Todd Kelly, Dr. Keith Tinker. All digital formats. 2D. Release: Fall 2019.
- August: Filmed glaciers in Iceland.
- September: Dry caves in France.
- November: Submerged Mayan remains in Mexico.

Asteroid Impact
Imax Corporation; distributor: Imax Corporation. Release: Fall 2019.

Out of Bounds *(wt)*
Wild Pacific Media; distributor: K2 Communications; director: Caspar Mazzotti; producers: Nick Robinson, Dave Gross; script: Nick Robinson. Cast: Torah Bright. Release: Fall 2019.

Cool Cities
The world's most iconic mega-cities.
Wild Pacific Media; distributor: K2 Communications. Release: Late 2019.

The Dolphin Ambassador *(wt)*
Milbrand Cinema; distributor: MacGillivray Freeman Films; director, producer, DP: Lance Milbrand; editor: Dave Choice; score: Icarus Music. Cast: Kathleen Dudzinski, Eldon Bolton. Release: 2019.

Elephant
Wild Expectations, Ltd.; distributor: tba. Release: 2019.

Feathered Dinosaurs *(wt)*
Saint Thomas Productions; ***distributor: nWave Pictures****. Narrator: James Faulkner. Release: 2019.*

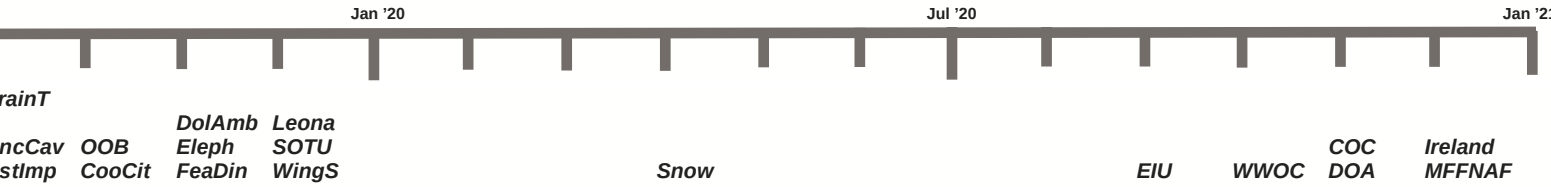
Leonardo da Vinci: The Last Interview *(wt)*
Camera Lucida Productions; distributor: MacGillivray Freeman Films; director: Francois Bertrand; DP: Vincent Mattias; script: Serge Bramly, Francois Bertrand. Executive producer: Francois Bertrand. Release: 2019.

Secrets of the Universe
Stephen Low Company; distributor: K2 Communications; director: Stephen Low; producer: Pietro Serapiglia; executive producers: Bob Kresser, Mark Kresser. Narrator: Simon Helberg. ***Release: 2019.***
- **November: Filming Large Hadron Collider and scientists at CERN and Geneva.**

Wingsuit Flyers
Grand Schema; distributor: K2 Communications; director: Christopher J. Scott; producers: John Molli, Christopher J. Scott, Aschi Michel, Tom Fore; DP: Robert Hollingworth; script: Christopher J. Scott; executive producers: Rob Sharps, Doug Greenstein, W. Kyle Gore, Daniel Verbic, Tom McCollum. ***Release: 2019.***

Snow
St. Thomas Productions, nWave Studios; distributor: nWave Pictures; directors: Cyril Barbançon, Jacqueline Farmer; producer: Jacqueline Farmer; DPs: Cyril Barbançon, Jacqueline Farmer; script: Philippe Chappuis; score: Franck Marchal; executive producer: Eric Dillens: Release: Spring 2020.
- Have scouted locations in Belarus, France, USA, and Iceland. Shooting will resume in the next few months.

Einstein's Incredible Universe *(wt)*
Cosmic Picture; distributor: tba; director: Daniel Ferguson; producers: Taran Davies, George Duf-



field, Daniel Ferguson; script: Daniel Ferguson, Mose Richards; DP: Reed Smoot. Release: fall 2020.

*Wild Wonders of China **

Highlights the many little-known conservation success stories in China.
Transcendent Media, Blue Sky Aerial & Specialist Filming; distributor: tba; director: tba; producers: Peta Milan, Staffan Widstrand, Vicky Degerfeldt; DP: Peter Degerfeldt. Release: fall 2020.

- November: Filming wild snow leopards in 8K.

*Colours of China **

A window into China, its traditions, culture and mythologies.
Making Movies/ China Intercontinental Communication Company/Gebrueder-beetz Filmproduktion; distributor: tba. Executive producer: James Heyward. Release: 2020.

- In production throughout China since January, final shoot scheduled for March 2019.
- November: Shooting the Peking Opera, and in Jingdezhen, porcelain capital of China.
- Will be released as 90-minute theatrical documentary and 40-minute GS version.

*Dinosaurs of Antarctica **

Journey to the south polar landscapes of Earth 100 million years ago.
Giant Screen Films; distributor: Giant Screen Films. Director: David Clark; producers: Don Kempf, Deborah Raksany, Andy Wood; DP: Reed Smoot; script: Deborah Raksany, Andy Wood Release: 2020.

- November: Filming in Illinois.
- January: Filming dinosaur backplates in New Zealand.
- February: CGI compositing begins.

Ireland

MacGillivray Freeman Films; distributor: MacGillivray Freeman Films. Release: 2020.

- **May-June: filmed in Dublin, Belfast, Skellig Islands, the Cliffs of Moher and other locations.**

MFF's New Adventure Film

MacGillivray Freeman Films; distributor: MacGillivray Freeman Films. Release: 2020.

- **September, October: 6-week shoot in more than 35 locations in 14 states, including Crater Lake, Oregon Coast, Columbia Gorge, Mesa Verde, Canyon de Chelly, Niagara Falls.**

DMR FILMS:

Title	*Dist*	*Release*
Fantastic Beasts: The Crimes of Grindelwald	*WB*	*11/16/18*
Mortal Engines	*UP*	*12/14/18*
Alita: Battle Angel	*FOX*	*12/21/18*
Aquaman	*WB*	*12/21/18*
Ad Astra	*FOX*	*1/11/19*
Glass	*UP, WDPD*	*1/18/19*
X-Men: Dark Phoenix	*FOX*	*2/14/19*
How to Train Your Dragon: The Hidden World	*UP*	*3/1/19*
Captain Marvel	*WDPD*	*3/8/19*
Shazam!	*WB*	*4/5/19*
Avengers 4	*WDPD*	*5/3/19*
Godzilla: King of Monsters	*WB*	*5/31/19*
Toy Story 4	*WDPD*	*6/21/19*
Spider-Man: Far From Home	*SONY*	*7/5/19*
Lion King, The	*WDPD*	*7/19/19*
The New Mutants	*FOX*	*8/2/19*
Artemis Fowl	*WDPD*	*8/9/19*
IT: Chapter 2	*TBD*	*9/6/19*
Wonder Woman 1984	*WB*	*11/1/19*
Frozen 2	*WDPD*	*11/27/19*
Star Wars: Episode IX	*WDPD*	*12/20/19*

Stephen Low Company

The Southern Pacific 4449 Daylight GS-4 steam engine being shot on 15/70 film for the Stephen Low Company's Train Time.

Films in Production

Ireland

MacGillivray Freeman Films, Inc.
Release Date: 2020
Format: 3D
Length: 40 min.

Ireland invites worldwide giant-screen audiences on an extraordinary and joyful film adventure. Premiering in 2020, the Emerald Isle film celebrates Ireland's rich history, land and seascapes, language, arts, and music. A 40-minute showcase of the island nation's natural beauty, Ireland also reaches for the soul of a country. Amid awe-inspiring locations such as Giant's Causeway, Skellig Michael, and the Cliffs of Moher, the film follows Irish writer Manchán Magan on his quest to reconnect Irish people from around the world with their land, language, and stories. Premier violinist Patricia Treacey and four of her teen orchestra students join Manchán to lend an even greater insight into Irish traditions and culture through the lens of music. Along the way they'll also meet scientists studying basking sharks and the adorable puffins of Skellig. From Dublin to Belfast, Kilkenny, Blarney Castle, and beyond, audiences will discover why they love Ireland.

Leonardo da Vinci

Camera Lucida Productions
Release Date: 2019
Format: 3D
Length: 43 min.

During his visit to France in October 1517, the Cardinal of Aragon asked to meet Leonardo da Vinci. The interview, as reported by the cardinal's secretary, took place in Amboise. On the day of the visit, Leonardo displayed to his visitors three paintings he had brought with him to France in his luggage—the Mona Lisa, the Saint John the Baptist, and the Saint Anne of the Louvre. Crucially, he showed them what nobody would ever see again in its entirety: his boxes of drawings and sketch books, containing his entire researches on human and comparative anatomy, his engineering projects, the plans for his civil engineering and military machines, his flying machines, his theater sets, his "useful inventions." Celebrating the 500th anniversary of his death, the film will immerse us into a unique creative universe.

MFF's New Adventure Film

MacGillivray Freeman Films, Inc.
Release Date: 2/28/2020
Format: 3D
Length: 40 min.

A journey through time and place, this giant-screen film will follow the trails made on land and sea that showcase our quest to explore our world. The film follows an adventurous Alaskan pilot and a space station astronaut, both Native Americans, who share a passion to inspire the next generation to seek new experiences, discover math and science, and learn from history and other cultures. They'll take audiences to spectacular locations, ancient homelands, hidden treasures and scenic byways, even into space. As they honor the past and reach toward the future, the film connects audiences to the trailblazer in us all.

Out of Bounds

Wild Pacific Media
Release Date: 10/31/2019
Format: 3D
Length: 40 min.

Follow Australian Olympic gold medalist Torah Bright as she journeys along the great American Cordillera, the world's longest chain of mountain ranges, extending from Antarctica all the way to Alaska. On the journey, Torah will encounter world-class snow athletes, scientists, and environmentalists. Discover the crucial role mountains play in our ecosystem and everyday life, while witnessing the most spectacular snowboard and ski action ever brought to the giant screen!

Science of Speed

Elwha Films
Release Date: 3/31/2021
Format: 3D
Length: 40 min.

Science of Speed is a science documentary with a racing soul, bringing you to 235 mph while showcasing STEM principles at work in the real world. Using relatable science, great personalities, and world-class CGI, it brings the thrill of chasing the winning edge to life. IndyCar and Team Penske (17-time Indianapolis 500 winners) take you behind the scenes to learn how physics, engineering, the body, and brain work together with the car in the fight for every last thousandth of a second. The film will release with a custom pop-up exhibit allowing the audience to put the same concepts into practice themselves. An extensive STEM-based educational outreach program is currently in development to further expand upon the film's platform and continue the conversation beyond the theater.

Sea Lion: Life by a Whisker

Definition Films
Release Date: 7/31/2019
Format: 3D
Length: 40 min.

Between a jagged cliff face and a roaring ocean, lives a colony of Australian Sea Lions. In an environment as harsh as it is beautiful, be immersed in a classic coming-of-age tale, guided by one of Australia's most unique, intelligent, and playful animals. Take an intimate journey inside the colony where a life of great intimacy, tenderness, and clumsiness must often give way to a life of great sacrifice and bravery. Exposed to the elements, life here can be brutal and more dramatic than any scripted drama. The film will take audiences straight into the heart of one little family's big adventure, exploring not only their connection to each other but also to their environment. For one of the worlds most endangered marine mammals, it's a never-before-seen struggle for survival, set against an astonishing and untouched wilderness.

Secrets of the Sands

Atlantic Productions
Release Date: 3/31/2019
Format: 3D
Length: 40 min.

Secrets of the Sands tells the tale of how an ancient people gained a remarkable mastery over one of the most inhospitable landscapes on the planet. This is a captivating human story that stretches back over 125,000 years. A story of ingenuity, survival, and triumph over adversity: centuries-old achievements that underpin the extraordinary success of the United Arab Emirates today. From the coastal people of the Stone Age who retrieved precious pearls from deep beneath the waters of the Gulf, to the ancient oasis engineers who tapped into hidden reservoirs of rainwater deep underground, and the pioneering navigators who first tamed wild camels to trek across the largest sand desert in the world. Epic cinematography, stunning CGI, and vibrant animations shed new light on one of the most extraordinary chapters in human history.

Secrets of the Universe

Stephen Low Company
Release Date: 4/1/2019
Format: 3D
Length: 40 min.

We are at the beginning of a period of unprecedented technological advancement, catalyzing a new age of scientific discovery. Travel with us on this immersive giant-screen film as we explore the most exciting machines ever conceived by man, including the Large Hadron Collider and James Webb Space Telescope. See how these new experiments allow us to look deeper into our origins, and unveil the mysteries of dark energy, dark matter, and extra dimensions.

Snow

Ouragan Films
Release Date: 3/31/2020
Format: 3D
Length: 40 min.

A meteorologist follows the movement of a winter storm that will bring snow to several countries. As landscapes are transformed, he wonders how long this magical snow scene will last. From the makers of *Hurricane 3D*.

Super Science Showcase

Wonder Mill Cosmos
Release Date: 9/29/2018
Format: 2D
Length: 45 min.

Super Science Showcase is an exciting collection of five educational adventure stories, perfect for middle school audiences and great for all ages. Featuring memorable plots and unique characters, these five stories also teach an introduction to scientific topics (in line with National Education Standards) that include the Laws of Motion; Astronomy; Animal Classification; States of Energy; and the Scientific Method. The film is available in both Standard and Interactive versions; Interactive versions include a pause for an audience quiz question near the end of each adventure, and a possible alternate ending, depending on the answer selected by the audience. This anthology film is also customizable for different theater needs, and available in shorter versions, in custom arrangements, or as individual episodes. The film's release is also accompanied with a strong peripheral collection of multimedia tie-ins, including books, merchandise and an App, also available in September, and will be coming to fulldome in 2019, with specific sequences shot just for dome screens.

Superpower Dogs

Cosmic Picture
Release Date: 3/9/2019
Format: 3D
Length: 40 min.

Join an immersive IMAX adventure to experience the life-saving superpowers and extraordinary bravery of some of the world's most amazing dogs. In this inspiring true story our best friends are also real-life superheroes. Journey around the globe to meet remarkable dogs who save lives and discover the powerful bond they share with their human partners. Follow Halo, a rookie puppy training to join one of the most elite disaster response teams in America. Meet Henry, an avalanche rescue expert in the Canadian Rockies; Reef, a Newfoundland lifeguard with the Italian coastguard; Ricochet, a Californian surf legend helping people with special needs; and the Bloodhound brothers, Tipper and Tony, who are leading the fight to save endangered species in Africa. As we discover the incredible abilities of dogs and the astonishing science behind their superpowers, we'll never look at our best friends the same way again!

Treasures of Mount Sinai

Mount Sinai Project
Release Date: 2020
Format: 3D
Length: 40 min.

Treasures of Mount Sinai is a journey to the mountain where Moses received the Ten Commandments. Discover why historical figures like Napoleon, Ivan the Terrible, and Emperor Justinian sought to protect it. Join an exciting adventure through St. Catherine's Monastery in the Egyptian desert where you will follow a group of young students as they embark on the journey of a lifetime. Learn how this unique environment has contributed to the preservation of many treasures that have stood the test of time for over 1,500 years. Uncover the wonders within the monastery walls and immerse yourself in a world never before seen on film. No film crew has ever gained this level of access to the secrets hidden within the monastery.

Wingsuit Flyers

Grand Schema
Release Date: 2018
Format: 3D
Length: 40 min.

The dream of flying has captivated human imagination since prehistoric times. Even with the advent of aircraft and the increasing availability of air travel, the ancient question stays with us: What if we could simply spread our arms and fly like a bird? Wingsuit flight is a groundbreaking phenomenon that has adrenaline junkies travelling the world in search of one exhilarating experience after the next. Our flyers have set records searching out the most exciting locations to take longer and more daring flights. In this epic 40-minute IMAX experience, we catch a ride with some of the best flyers in the world as they journey to incredible mountaintops while teaching us the art and science of human flight. The film is both a first- and third-person perspective from the flyers themselves and a name Voice Over. It will feature incredible footage from POV helmet cameras, flying drones, and helicopter rigs. What's behind the pilot and the suit? How can they fly longer and faster? Will man ever fly without a chute? We answer those questions and more while exploring the burgeoning counterculture of wingsuit pilots, whose lives are dedicated to chasing the thrill and pursuit of human flight.

Films in Development

Blue Whales
Oceanic Films
Release Date: 3/31/2021
Format: 3D
Length: 40 min.

Blue whales grow to 100 feet long and have a heart the size of a car, yet despite their great size we know surprisingly little about them. With new scientific discoveries and the latest filming techniques we can now reveal the secret lives of blue whales, in a story made for the giant screen. We will follow a team of passionate scientists using the latest tech and "old fashioned" science to reveal the blue whales' epic migrations and intimate birthing grounds. In Mexico's stunning Gulf of California and off the coast of Southern California we will film blue whales as never before. Come with us as we discover the mysteries of the largest animal that has ever lived, shown in life size on the giant screen: a truly awe-inspiring experience. *Blue Whales*, the intimate story of an iconic character in an epic location.

Dinosaurs of Antarctica
BBC Earth
Release Date: 2020
Format: 3D
Length: 40 min.

Journey to the south polar landscapes of Earth 100 million years ago, a world of primitive forests and thick swamps, populated by bizarre dinosaurs and colossal amphibians. Enter a surreal world of Permian and Triassic bug-eyed giants and egg-laying mammals, where survival meant enduring the sunless, six-month polar winter surrounded by meat-eaters with night vision. Join Antarctic scientists on a quest to understand Earth at a time of great climatic and geologic upheaval, and to unravel the mystery behind the largest extinction in the history of our planet. Major funding provided by the National Science Foundation.

Einstein's Incredible Universe
Cosmic Picture
Release Date: 2020
Format: 3D
Length: 45 min.

Today Albert Einstein is regarded as the most famous scientist of all time, his name shorthand for genius, yet few of us fully understand his discoveries and their impact on our lives. Now through a combination of stunning live-action cinematography and immersive CGI, audiences will experience first-hand the visceral "thought experiments" at the heart of Einstein's radical new vision of the universe. Along the way, we will come to appreciate how so many innovations we take for granted stem from his imagination and how his General Theory of Relativity remains the basis of nearly every current theory about how the cosmos works, from black holes and time travel to the recent discovery of gravitational waves.

Giant Machines
Giant Screen Films
Release Date: 2020
Format: 3D
Length: 40 min.

Smash! Crunch! Dig! A giant-screen, full-throttle ode to the bulldozers and machines that build (and demolish) our world. For the kids!

Ocean 3D
Principal Large Format
Release Date: 2020
Format: 3D
Length: 45 min.

Ocean 3D (previously *Planet Ocean 3D*) is a film about the real-life heroines and heroes who use science, ingenuity, and collective action to address the big issues that threaten marine environments around the world. Center stage is the ocean as an interconnected life-supporting system, host to awe-inspiring biodiversity, but now at risk because of climate change, overfishing, and runaway pollution. Audiences will come away educated, entertained and, most importantly, inspired to action. Luke Cresswell is writer and director.

Ocean Giants
Giant Screen Films
Release Date: 2020
Format: 3D
Length: 40 min.

Blue whales are the largest animal ever to live on planet Earth, including the dinosaurs. The transition over millions of years from fish to land mammal is one of life's most astounding transformations. The return of mammalian life from land to sea — a 40-million year epic — is equally profound. Join intrepid paleontologist adventurers on a giant-screen journey to otherworldly ancient seas. Discover one of the most illustrative evolution stories — through the extraordinary Age of Mammals — tracing the early land-dwelling, wolf-like cetaceans to the ocean giants of today.

The Planets: Our Next Century in Space
Giant Screen Films
Release Date: 2020
Format: 3D
Length: 40 min.

The Planets is a journey from science fiction to "science vision," an aspirational look at the next century in human spacefaring achievement, profiling the technological and pioneering stepping stones thought necessary for humankind to become a truly interplanetary species. From moon bases and space elevators to mining outposts and aerostatic habitats, the film will profile the dreamers of today — engineers and artists from universities, international space agencies, and private enterprise — whose proof-of-concept technologies and mind-blowing innovations could allow our children's children to push ever deeper into a solar system both beautiful and bizarre.

Shark Rescue
December Media
Release Date: 2020
Format: 3D
Length: 42 min.

Humans don't need rescuing from sharks, it's sharks that need rescuing from humans. Meet Madi Stewart, a young, passionate shark advocate, on a mission to save sharks from humans, their most fearsome predator. Travel with Madi from Australia's Great Barrier Reef to a remote island in Indonesia as she works with local villagers to transform their way of life from shark fishing to shark tourism. Madi wants to change the way we think about sharks. What better place to start than underwater? Come meet them face to face in this immersive 3D adventure.

Shark Wars: The Ultimate Predator
Sea Dog TV International
Release Date: 10/31/2019
Format: 3D
Length: 40 min.

Great White Sharks are the apex predator of the sea. They are the largest of the carnivorous shark species. Bull sharks are smaller, but often are regarded as the most aggressive of all the sharks. Evolution has arguably delivered the perfect predators. As such, we fear and are intrigued by them in equal measure. *Shark Wars: The Ultimate Predator* deploys new science and uses filming techniques never used before to compare the physical abilities of Great Whites and Bull Sharks head to head, pushing their highly developed sensory systems to the limit in virtual darkness to determine, pound-for-pound, which species is the ultimate shark predator.

Shipwrecks
Giant Screen Films
Release Date: 2020
Format: 3D
Length: 40 min.

From pirate treasures to sunken galleons and battleships in tropical lagoons. Join a team of modern explorers to seek and dive the world's shipwrecks, relics lost to the sea.

Tiger, Tiger
Imax Corporation
Release Date: 10/31/2019
Format: 3D
Length: 40 min.

The tiger, the biggest of the big cats, is one of the most powerful animals to stride our planet and also one of the most threatened by extinction. Alan Rabinowitz, the leading big cat conservation scientist of our time, ventures deep into the mangrove forests of India and Bangladesh seeking the little-known Sunderbans tiger. As he journeys through the remote river-forest and the villages that surround it, Alan encounters both the threats the tiger faces, and the solutions that can save it. Evoking his own childhood vow to be a voice for animals, Alan shows how ordinary people can become "tiger heroes." And casting a thrilling shadow over all the action is the magnificent, incomparable tiger.

Yellowstone: Life in Extremes
Grizzly Creek Films
Release Date: 2020
Format: 3D
Length: 45 min.

Follow nature's epic drama as a struggle for survival unfolds over a year in the life of the iconic resident grizzly bears, wolves, and bison. The stage is set in a place like no other: a place where the world's largest active supervolcano fuels the biggest collection of geothermal features anywhere on earth; a place where subzero temperatures and record snowfall dictate harsh trials in a stunning, frozen wonderland; a place where North America's richest ecosystem offers a rare glimpse into the continent's wild past. Filmed for two straight years, *Yellowstone: Life in Extremes* is the most ambitious giant screen production ever attempted in the iconic national park.

Premiering in October

Volcanoes: The Fire of Creation

Produced by Digital Crossing Productions, distributed by SK Films. Directed, produced, and photographed by Michael Dalton-Smith, scripted by Michael Dalton-Smith and Karen Gordon, scored by Daniel Sadowski. Executive producers: Jonathan Barker and Michael Dalton-Smith. Cast: Carsten Peter. Release: Oct. 15.

Volcanoes: The Fires of Creation is a tale of science, culture, and thrilling adventure.

Earth is a planet born of fire. For billions of years volcanoes have helped create the world we know. From the continents to the air we breathe and even life itself, all have their origins in fire. These processes have created extraordinary ecosystems and wildlife habitats, from the home of mountain gorillas in Central Africa, to the shores of Hawaii, to the Serengeti and beyond, and continue to do so to this day. With over 500 active volcanoes, our Earth is bursting at the seams with these forces of mass construction. The story of volcanoes is the story of Earth's creation and the story of us.

With explorer Carsten Peter, dodge boulders at the edge of an active volcano in Indonesia, descend to a lava lake in Vanuatu, visit a ghost town following an eruption, and look on in awe and wonder at volcanic mineral deposit fields in Ethiopia. Audiences will be on the edge of their seats as they discover molten worlds and exploding craters in this adrenaline-filled, immersive experience that only IMAX/giant-screen films can provide.

DMR:

Venom	SONY	10/5/18
First Man	UP	10/12/18

Bookings: Sept.-Oct. 2018 by Film

659 bookings of 98 films in 163 theaters

These listings to not include Hollywood films shown in multiplex IMAX theaters. Those films are listed when they are shown in non-multiplex theaters, and conversely, non-Hollywood giant-screen films showing on multiplex IMAX screens are also listed.

Listings shown in **bold face** below are new or updated listings. The rest are unchanged from the previous month's issue.

The data on the following pages are ***not*** warranted to be comprehensive or accurate in every detail, despite our best efforts to make them so. They have been compiled from theater surveys, distributors, the Web, and other sources.

We will make every effort to improve the thoroughness, and accuracy of these data. If your theater or film is not shown here, please get in touch with us to update our listings.

Where a date is not shown, it means that no date was provided by the source or, in the case of a closing date, that no date has been set, or that the run is indefinite.

The key to film abbreviations is on page 21.

Film	Theater	Open	Close
ACGOTS	Corpus Christi Lex	6/17/16	
	Dayton	6/17/16	12/31/18
	Erie	10/1/17	10/31/18
	Hampton VASC	11/10/17	11/9/18
	Hutchinson	5/29/17	11/30/18
	Pensacola NAM	5/26/17	6/30/19
	San Diego MV AMC	11/10/17	11/9/18
	Toronto OP	6/1/18	6/1/19
	Washington NASM	5/26/17	5/25/19
AfricAdv	**Katowice CC**		**9/30/19**
	Krakow CC		**9/30/19**
	Lodz CC		**9/30/19**
	Poznan CC		**9/30/19**
	Warsaw CC		**9/30/19**
	Wroclaw CC		**9/30/19**
AirRacer	Hutchinson	1/19/18	1/31/19
Alaska	Shijiazhuang HST	1/1/17	1/1/19
AmazAdve	Austin TSHM	9/1/18	8/15/19
	Beijing 3D CSTM	2/6/18	2/15/19
	Charlotte DP	5/1/17	6/30/19
	Chicago MSI	5/26/17	6/30/19
	Cleveland	1/9/18	6/30/19
	Columbus COSI	1/10/18	6/30/19
	Daqing STM	2/16/18	2/15/19
	Dearborn THF	3/2/18	2/28/19
	Edmonton TWS	1/19/18	6/30/19
	Erie	6/30/18	12/31/18
	Gatineau	12/16/17	12/15/18
	Guayaquil	4/16/18	2/28/19
	Hampton VASC	3/31/18	3/30/19
	Houston MNS	4/21/17	12/31/18
	Indianapolis Imx	9/8/17	6/7/19
	Kagoshima	10/10/18	12/31/18
	Kuwait SCK	6/14/18	12/31/18
	Los Angeles CSC	10/11/17	10/10/18
	Melbourne MV	**9/15/17**	**9/13/19**
	Mexico City Pap	11/17/17	11/16/18
	New York AMNH	3/9/18	9/14/18
	Orlando SC	2/24/18	2/23/19
	Peoria RM	6/20/18	1/19/19
	Phoenix ASC	8/16/18	2/15/19
	Pittsburgh CSC	11/17/17	6/30/19
	Portland OMSI ET	2/16/18	2/15/19
	Regina	2/16/18	2/15/19
	Richmond SMV	5/1/18	4/30/19
	Sacramento Imx	9/8/17	6/30/19
	Seattle PSC 2	11/10/17	
	Shanghai 3D STM	8/1/18	8/1/19
	Sioux Falls	12/2/17	6/30/19
	Sudbury	10/6/17	10/5/18
	Tallahassee CLC	4/28/17	6/30/19
	Toronto OSC	10/6/17	9/30/18
	Vancouver TWS	12/22/17	12/21/18
	Victoria DCI	4/14/17	6/30/19
	Washington NASM	4/21/18	12/31/18
Amazon	Hartberg	3/25/15	12/31/18
AMJ	**Albuquerque NMMNH**	**7/16/18**	**7/15/19**
	Chandigarh	**6/15/18**	**6/14/20**
	Cleveland	3/23/18	3/22/19
	Columbus COSI	5/25/18	5/24/19
	Dearborn THF	2/16/18	2/15/19
	Denver MNS	2/16/18	2/15/19
	Fort Worth	2/16/18	2/15/19
	Galveston	3/1/18	2/18/19
	Hague	**7/3/18**	**7/2/19**
	Hampton VASC	**10/1/18**	**9/30/19**
	Hastings	**6/21/18**	**6/20/19**
	Indianapolis Imx	**6/8/18**	**6/7/19**
	Leon Exp	**6/1/18**	**11/30/18**
	Lubbock SS	**7/6/18**	**7/6/19**
	Lucerne	**9/1/18**	**9/1/19**
	Melbourne MV	**8/23/18**	
	Memphis Pink	**8/11/18**	**8/10/19**
	Mexicali	**9/22/18**	**3/21/19**
	Mexico City Pap	3/15/18	3/14/19
	Monterrey Pap	3/15/18	9/15/18
	Montreal SC	5/18/18	5/17/19
	Moscow Kin	4/15/18	4/14/19
	Paris Geo	3/7/18	3/6/19
	Peoria RM	2/16/18	2/15/19
	Raleigh	**9/1/18**	**8/31/19**
	Regina	5/11/18	5/12/19
	Saint Augustine	**6/1/18**	**5/30/19**
	San Jose Tech	2/17/18	2/16/19
	Seattle PSC 2	**9/7/18**	**9/6/19**
	Tallahassee CLC	2/16/18	2/15/19
	Tijuana	3/1/18	2/28/19
	Valencia Spn	**7/1/18**	**6/3/19**
	Vancouver TWS	3/17/18	3/16/19
	Victoria DCI	3/9/18	3/8/19
AMMM	Melbourne MV	7/11/16	
Animalop	Stockholm	10/1/17	10/1/19
AOTE	Orlando SC	11/1/17	10/31/18
	Phoenix ASC	12/26/17	12/31/18
	Portland OMSI ET	1/26/18	1/31/19
	Saint Félicien	4/1/18	11/30/19
AsterME	Athens Eug	3/30/17	9/30/18
	Atlanta FMNH	**1/11/18**	**1/10/20**
	Garden City	**5/19/17**	**6/18/20**
	Philadelphia FI	**1/1/17**	**1/1/20**
BackWild	Atlanta FMNH	3/23/18	9/30/18
	Birmingham AL	3/23/18	9/30/18
	Chattanooga TA	3/16/18	3/15/19
	Columbus COSI	5/24/18	11/24/18
	Dearborn THF	8/1/18	7/31/19
	Edmonton TWS	9/14/18	9/23/18
	Erie	8/4/18	2/23/19
	Fort Lauderdale	6/1/18	5/31/20
	Galveston	8/21/18	2/28/19
	Garden City	9/25/18	9/24/19
	Gatineau	6/1/18	5/31/19
	Jersey City	8/4/18	8/3/19
	Lehi	5/24/18	5/24/19
	Louisville KSC	3/23/18	3/22/19
	New York AMNH	9/14/18	3/13/19
	Norwalk MA	3/24/18	9/30/18
	Pittsburgh CSC	8/31/18	6/30/19
	Portland OMSI ET	9/7/18	9/6/19
	Raleigh	6/4/18	6/3/19
	San Diego NHM	8/1/18	2/28/19
	Sudbury	9/4/18	6/30/19
	Virginia Beach AMSC	6/30/18	12/31/18
Bugs	Calgary TS	9/28/15	9/28/18
	Columbus COSI	9/15/14	6/30/19
	Davenport Put	**10/1/12**	**4/28/20**
	Dubai Vox	**2/1/17**	**1/30/19**
	Edmonton TWS	6/30/18	6/30/19
	San Diego RHF	7/1/14	6/30/19
ConqOTS	Austin TSHM	3/1/18	2/28/19
	Salt Lake City Clark	**4/7/18**	**11/9/18**
CRA	**Fort Worth**	**6/10/17**	**9/30/19**
	Garden City	11/1/17	12/31/18
	Hartberg	3/25/15	12/31/18
	Nanchang JTSC		**12/30/18**
	Toronto OSC	2/24/18	2/23/19
D-Day	Columbus COSI	3/9/18	3/9/19
	Columbus GA NIM	1/31/18	1/31/19
	Davenport Put	9/10/17	9/10/18
	Dayton	5/26/17	12/31/18
	Dearborn THF	2/27/17	2/28/19
	Edmonton TWS	3/1/18	12/31/18
	Gatineau	9/1/15	3/31/19
	Hampton VASC	**10/17/18**	**10/17/19**
	Hastings	5/15/15	12/31/18
	Hutchinson	12/31/17	1/31/20
	Pensacola NAM	7/1/18	12/31/18
	Peoria RM	4/2/15	10/31/18
	Raleigh	5/23/14	2/1/19
	Seattle PSC 2	3/29/14	6/30/19
	Washington NASM	5/23/17	5/22/19
DIA	Harrisburg	1/1/16	12/31/18
DinoAliv	**Fort Worth**	**7/15/16**	**9/30/19**
	Houston MNS	7/1/17	6/30/19
	Kansas City Sci	7/3/18	7/31/19
	Portland OMSI ET	1/26/18	1/31/19
	Syracuse MOST	**10/5/18**	**1/31/19**
Dolphins	**Fort Worth**	**5/28/16**	**9/30/19**
	Gatineau	**7/9/18**	**3/20/20**
	Rochester MSC	12/1/17	12/31/18
	Speyer Dome		**12/30/18**
DreamBig	**Austin TSHM**	**10/1/17**	**9/1/19**
	Baltimore MSC	2/17/17	6/30/19
	Baton Rouge LASM	**6/30/17**	**12/30/18**
	Birmingham AL	**2/17/17**	**2/28/19**
	Boston MOS	10/6/17	10/5/18
	Bradford	1/1/18	12/31/19
	Chantilly	2/17/17	2/16/20
	Charlotte DP	8/26/17	9/1/18
	Cleveland	3/17/17	2/18/19
	Davenport Put	**2/24/17**	**12/31/18**
	Dearborn THF	**2/17/17**	**12/31/18**
	Edmonton TWS	**3/25/17**	**2/28/19**
	Fort Lauderdale	2/17/17	2/17/19
	Fort Worth	**2/17/17**	**6/30/19**
	Garden City	12/1/17	11/30/18
	Grand Rapids Cel	**7/15/17**	**7/31/19**
	Guayaquil	4/16/18	4/15/19
	Hampton VASC	2/17/17	2/17/19
	Harrisburg	2/18/17	2/18/19
	Hastings	10/19/17	10/18/18
	Houston MNS	2/17/17	12/31/19
	Jersey City	**2/17/17**	**12/31/19**
	Lansing Cel	**6/30/17**	**7/31/19**
	London SM	9/4/17	8/31/19
	Louisville KSC	2/17/17	9/1/18
	Lubbock SS	2/2/18	2/1/19
	Memphis Pink	2/10/18	3/2/19
	Mexico City Pap	**3/15/17**	**12/31/18**
	Mobile	9/23/17	9/22/18
	Monterrey Pap	2/2/18	2/1/19
	Moscow Kin	9/10/17	12/31/18
	Philadelphia FI	3/1/18	2/28/19
	Pittsburgh CSC	11/17/17	12/31/18
	Portland OMSI ET	**2/17/17**	**3/1/19**
	Raleigh	**2/17/17**	**12/31/18**
	Regina	**2/17/17**	**12/31/18**
	Richmond SMV	**2/18/17**	**12/31/18**
	Saint Paul SMM	3/2/18	12/31/18
	San Diego RHF	3/10/17	4/1/19
	Seattle PSC 2	2/17/17	2/16/19
	Shanghai 3D STM	9/19/17	9/18/18
	Singapore DC	**10/1/18**	**4/1/19**
	Sioux Falls	**6/2/17**	**6/30/19**
	Stockholm	3/15/18	3/15/19
	Sudbury	2/17/17	6/30/19
	Thessaloniki	10/28/17	10/27/18
	Valencia Spn	**4/1/18**	**6/30/19**
	Washington NASM	2/17/17	2/16/20
DSC	**Edmonton TWS**	**9/14/18**	**9/23/19**
	McMinnville	**6/16/16**	
EarthFli	Atlanta FMNH	6/21/18	6/30/19
	Erie	4/1/18	3/31/19
	Houston MNS	**9/1/18**	**10/10/18**
	Orlando SC	4/1/18	4/30/19
Electrop	**Columbus COSI**	**4/1/17**	**3/30/19**
Everest	**Athens Eug**	**10/1/18**	**2/28/19**

Film	Theater	Open	Close
	Chandigarh	**6/15/18**	**6/14/20**
	Gatineau	**7/30/18**	**3/30/20**
	Hartberg		12/31/18
ExtrWeat	**Aguascalientes**	**5/26/18**	**11/26/18**
	Calgary TS	**9/1/17**	**9/1/20**
	Columbus COSI	9/1/17	9/1/18
	Davenport Put	**10/15/16**	**10/14/19**
	Detroit MSC	**5/22/17**	**12/31/18**
	Edmonton TWS	**6/2/17**	**6/1/19**
	Garza Garcia	**3/1/18**	**6/30/19**
	Huntsville USSRC	**4/1/18**	**4/1/19**
	Kansas City Sci	**10/15/16**	**10/14/19**
	Kuwait SCK	**11/1/17**	**4/30/19**
	Memphis Pink	**3/24/17**	**8/31/19**
	Parker	**9/30/17**	**9/30/18**
	Philadelphia FI	**2/11/17**	**2/11/19**
	Sacramento Imx	**2/24/17**	
	Saint Augustine	**10/15/16**	**10/14/19**
	Saint Louis SC	**1/13/17**	**12/12/18**
	Tallahassee CLC	**5/19/17**	**5/1/20**
	Tijuana	**7/28/17**	**6/1/19**
FightPil	Chantilly	12/10/04	
	Corpus Christi Lex	5/12/12	
	Dayton	3/1/13	
	Huntsville USSRC	7/1/13	
	McMinnville	3/23/12	
FlyMons	**Charlotte DP**	**5/26/18**	**12/31/19**
	Columbus COSI	**7/17/17**	**7/30/19**
	Davenport Put	**3/27/14**	**6/1/20**
	Edmonton TWS	**1/4/16**	**1/1/19**
	Kenner	**6/4/16**	**6/3/20**
	Killeen	**9/15/17**	**9/15/20**
	Moscow Kin	**10/1/16**	**12/31/18**
	Portland OMSI ET	**5/22/14**	**4/9/19**
FON	**Hague**	**10/4/12**	**10/3/20**
	Louisville KSC	**6/18/15**	**7/2/20**
	Melbourne MV	**9/1/15**	**12/31/18**
	Portland OMSI ET	**10/22/17**	**10/21/18**
FOTB	Austin TSHM	10/1/16	12/31/18
	Columbus COSI	9/1/14	6/30/19
	Davenport Put	2/15/13	6/30/19
	Dearborn THF	2/8/17	12/31/18
	Edmonton TWS	12/26/13	6/30/19
	Gatineau	10/5/12	6/30/19
	Harrisburg	2/2/14	6/30/19
	Hastings	3/17/13	6/30/19
	Houston MNS	10/4/12	9/30/18
	Louisville KSC	9/30/12	6/30/19
	Peoria RM	4/1/16	6/30/19
	Port of Spain	10/6/17	10/5/18
	Portland OMSI ET	1/7/14	6/30/19
	Raleigh	10/19/17	6/30/19
	Richmond SMV	5/1/13	6/30/19
	Sacramento Imx	8/13/13	5/31/19
	Saint Augustine	1/18/13	6/30/19
	San Diego RHF	10/12/12	6/30/19
	Tallahassee CLC	1/18/13	6/30/19
	Victoria DCI	4/5/13	6/30/19
G3DNW	Berlin CS	4/20/14	10/19/18
	Davenport Put	10/17/14	10/20/18
	Edmonton TWS	**10/22/18**	**1/24/19**
	Hastings	2/10/15	6/10/19
	Katowice CC	6/18/14	9/19/18
	Krakow CC	6/18/14	9/19/18
	Lodz CC	6/18/14	9/19/18
	Orlando SC	7/5/14	1/4/19
	Philadelphia FI	9/6/16	12/31/18
	Poznan CC	6/18/14	9/19/18
	Prague CC	5/22/14	5/21/19
	Virginia Beach AMSC	5/28/16	12/31/18
	Warsaw CC	6/18/14	9/19/18
	Wroclaw CC	10/4/17	9/19/18
GBR3D	**Atlantic City**	**7/1/18**	**3/1/19**
	Boston MOS	**7/5/18**	**7/4/19**
	Cleveland	**8/1/18**	**7/31/19**
	Edmonton TWS	**7/1/18**	**6/30/19**
	Fort Lauderdale	**10/5/18**	**10/4/19**
	Harrisburg	**7/6/18**	**7/5/19**
	Jersey City	**8/1/18**	**7/31/19**
	Saint Augustine	**8/20/18**	**8/19/20**
	Salt Lake City Clark	**7/21/18**	**3/29/19**
	San Diego RHF	**7/5/18**	**7/5/19**
GC	**Grand Canyon DCI**	**11/1/99**	**12/19**
GCA	**Grand Rapids Cel**	**9/1/18**	**7/31/19**
	Hartberg	**3/25/15**	**12/31/18**
	Portage Cel	**9/1/18**	**7/31/19**
	Richmond SMV	6/1/16	7/31/19
GlobSoun	Charlotte DP	11/1/17	11/1/19
	Edmonton TWS	10/1/16	10/1/18
	Mobile	10/18/17	10/1/18
	Vancouver TWS	10/1/16	10/1/18
Greece	Beijing Dome CSTM	1/15/18	1/14/19
	Lucknow	12/1/17	11/30/18
Gruffalo	Saint Augustine	1/1/15	12/31/18
GruffChi	Saint Augustine	2/1/15	12/31/18
GWS	Boston NEA	5/31/13	6/30/19
	Galveston	6/28/14	9/30/18
	Gatineau	10/7/16	3/31/20
	Hague	4/1/18	4/30/19
	Hutchinson	7/1/17	12/31/19
	Norwalk MA	7/1/18	9/3/18
	Portland OMSI ET	1/26/18	1/31/19
	Sacramento Imx	2/20/15	6/30/19
	San Jose Tech	10/31/18	1/31/20
HCBTD	**San Simeon DCI**	**8/17/96**	
HidUniv	Davenport Put	10/1/17	10/31/18
	Glasgow		**12/30/18**
	Hampton VASC	**9/7/18**	**12/31/19**
	Lansing Cel	**7/1/18**	**7/31/19**
	Parker	**7/29/18**	**7/21/19**
HOTB	New Orleans	9/15/15	12/31/18
HumpbWha	Albuquerque NMMNH	12/1/17	11/30/18
	Apple Valley Imx	**7/12/18**	**7/12/19**
	Baltimore MSC	**7/1/15**	**7/12/19**
	Grand Rapids Cel	**9/1/18**	**7/31/19**
	Indianapolis Imx	**8/17/16**	**6/5/19**
	Keelung NMMST	**7/1/18**	**6/30/19**
	Mexico City PAP	**11/16/16**	**11/30/18**
	Milwaukee	2/1/18	1/30/19
	Nuremberg		12/31/18
	Pittsburgh CSC	6/17/16	12/31/18
	Portage Cel	**9/1/18**	**7/31/19**
	Richmond SMV	3/14/15	7/31/19
	Sacramento Imx	**8/19/16**	**10/24/19**
	Sudbury	**9/24/15**	
	Vancouver TWS	**10/9/15**	**6/30/19**
Hurrican	Hampton VASC	6/15/17	6/14/19
	Houston MNS	1/8/18	10/31/18
	Indianapolis Imx	2/9/18	2/8/19
	Kuwait SCK	4/19/18	10/18/18
	Port of Spain	4/26/18	4/25/19
	Victoria DCI	2/1/18	1/31/19
IncrPred	Atlanta FMNH	9/30/17	9/30/18
	Columbus COSI	**9/22/18**	**9/30/19**
	Edmonton TWS	10/6/17	10/31/18
	Fort Lauderdale	9/29/17	9/29/18
	Houston MNS	9/15/17	9/30/18
	Lehi	**9/29/17**	**9/30/19**
	Phoenix ASC	**10/19/18**	**10/31/19**
	Yellowstone	5/18/18	10/31/18
ISR	Huntsville USSRC	5/5/18	4/30/19
	Sioux Falls	5/4/18	4/30/19
Jerusale	**Columbus GA NIM**	**10/18/13**	**2/7/19**
	Galveston	**11/12/15**	**4/22/19**
	Jersey City	**9/1/18**	**8/31/20**
	Jerusalem YP	**12/7/17**	**12/6/18**
	Rishon YP	**12/7/17**	**12/6/18**
	Sacramento Imx	**9/15/14**	**10/31/19**
	San Jose Tech	**3/15/15**	**6/20/19**
	Speyer Dome	**12/12/13**	**12/11/19**
	Tijuana	**4/1/15**	**3/14/19**
	Washington NASM	**10/23/17**	**12/31/18**
JMCSO	Chattanooga TA	1/31/18	1/31/19
	Port of Spain	2/7/17	2/28/19
	Portland OMSI ET	3/1/17	2/28/19
	Valencia Spn	4/1/17	9/30/18
JTM	Edmonton TWS	12/26/13	6/30/19
	Hague		6/30/19
	Port of Spain	10/6/17	10/5/18
JTS	Athens Eug	11/29/17	12/31/18
	Columbus GA NIM	12/4/15	4/30/19
	Dayton	3/6/15	12/31/18
	Hampton VASC	2/21/15	2/20/19
	Indianapolis Imx	8/31/18	8/30/19
	KSC 1	2/27/15	
	Los Angeles CSC	10/29/15	9/3/18
	Portland OMSI ET	3/20/15	3/21/19
	Toronto OSC	10/15/18	10/15/19
	Washington NASM	3/6/15	
JTTSP	Columbus COSI	11/26/16	3/8/19
	Copenhagen TBP	6/15/17	12/16/18
	Edmonton TWS	**1/16/15**	
	Memphis Pink	**5/26/18**	**5/25/19**
	Monterrey Pap	**6/10/16**	**12/31/18**
	Speyer Dome	**5/25/17**	**12/31/18**
	Stockholm		**12/31/18**
Kenya	Hutchinson	5/30/15	6/30/19
L&C	Baton Rouge LASM	11/3/15	11/2/18
	Davenport Put		**4/26/20**
	Saint Augustine		**6/14/19**
	San Jose Tech	**6/8/16**	**6/20/19**
LastReef	Davenport Put	7/1/15	6/30/19
	Louisville KSC	2/8/14	6/30/19
	Moscow Kin	6/1/16	10/31/18
	Sacramento Imx	5/20/16	6/30/19
	Sioux Falls	1/30/15	6/30/19
LITAOA	**Chantilly**	**5/1/15**	
	Davenport Put	**7/1/16**	**10/1/20**
	Lehi	**4/10/15**	**7/30/19**
	McMinnville	**4/10/15**	**5/30/19**
	Saint Paul SMM	**10/12/18**	**3/10/19**
	Washington NASM	**4/10/15**	
LivingSe	Hartberg	10/1/13	12/31/18
LOF	McMinnville	3/23/12	
MA	Atlanta FMNH	2/9/18	2/8/19
	Guangzhou GSC	12/1/17	11/30/18
	Hangzhou LCSTM	12/1/17	11/30/18
	Melbourne MV	1/30/17	1/28/19
	Shanghai 3D STM	12/1/17	11/30/18
MOC	Aguascalientes	4/1/18	9/30/18
	Alamogordo	3/31/18	3/31/19
	Columbus COSI	4/1/17	3/31/19
	Edmonton TWS	1/27/17	12/31/18
	Gatineau	1/10/18	1/31/19
	Jersey City	11/1/17	12/31/18
	Lubbock SS	10/1/17	10/31/18
	Philadelphia FI	9/30/17	9/30/18
	Sioux Falls	1/25/18	1/31/19
	Sudbury	**9/7/17**	**10/31/19**
MOE	**Los Angeles CSC**	**3/24/18**	**1/6/19**
	Portland OMSI ET	**10/6/18**	**1/27/19**
	Victoria DCI	**5/18/18**	**12/31/18**
MOF	Pensacola NAM	11/8/96	
	Speyer Dome	12/1/97	12/31/18
MOTUW	**Bradford**	**4/12/14**	**6/30/19**
	Copenhagen TBP	**6/19/14**	**6/18/19**
	Davenport Put	**2/1/14**	**1/31/19**
	Dubai Vox	**2/1/17**	**3/30/19**
	Edmonton TWS	**9/14/18**	**9/23/18**
	Mumbai Ino	**1/1/18**	**12/31/19**
	Poitiers Imax 3D	**2/1/16**	**1/31/19**
	Tallahassee CLC	**3/17**	**3/20**
	Victoria DCI	**10/9/15**	**11/8/18**
MounQues	**Milwaukee**	**10/1/18**	**9/30/19**
Mummies	Baton Rouge LASM	3/1/17	3/31/19
	Melbourne MV	**9/22/17**	**9/30/19**
	Peoria RM	**10/16/18**	**10/31/20**
	Portland OMSI ET	**1/26/18**	**3/31/19**
	Sacramento Imx	1/1/17	6/30/19
	Vancouver TWS	7/1/17	6/30/19
ND	New Delhi ICC		
Niagara	**Niagara Can DCI**	**7/1/86**	
	Niagara NY DCI	**5/1/07**	
NPA	Albuquerque NMMNH	4/2/18	4/1/19
	Baltimore MSC	**7/1/18**	**6/30/19**
	Branson	3/18/16	12/31/18
	Carnival Horizon	**4/1/18**	**10/5/19**
	Carnival Vista	4/1/18	10/1/18
	Columbus COSI	3/8/18	3/8/19
	Columbus GA NIM	**4/1/16**	**5/9/19**
	Daqing STM	1/1/18	12/31/18
	Edmonton TWS	**2/12/16**	**10/15/19**
	Fort Worth	**2/12/16**	**5/31/19**
	Grand Canyon DCI	3/16/18	3/8/19
	Grand Rapids Cel	**10/1/18**	**7/31/19**
	Hague	2/16/16	12/31/18
	Hampton VASC	4/29/16	4/29/19
	Hastings	**6/9/16**	**7/1/19**
	Hong Kong SM	**9/8/18**	**2/28/19**
	Houston MNS	**7/1/18**	**12/31/19**
	Indianapolis Imx	2/12/16	12/31/18
	Jersey City	2/12/16	6/24/19
	Lansing Cel	**10/1/18**	**7/31/19**
	London BFI Ode	**2/12/16**	**7/1/19**
	Lucerne	**3/17/16**	**11/30/18**
	Mexicali	4/22/18	10/22/18
	Mobile	5/26/18	5/25/19
	Moscow Kin	9/17/16	12/31/18
	Nuremberg	**3/10/16**	**12/31/18**
	Orlando SC	2/12/16	11/17/18
	Pittsburgh CSC	2/12/16	12/31/18
	Portage Cel	**10/1/18**	**7/31/19**
	Portland OMSI ET	**2/12/16**	**3/1/19**
	Richmond SMV	**4/10/16**	**4/30/19**

Film	Theater	Open	Close
	Saint Louis SC	**2/12/16**	**3/31/19**
	Sudbury	2/12/16	3/30/19
	Valencia Spn	10/7/16	9/30/18
	Vancouver TWS	**2/12/16**	**6/30/19**
	Yellowstone	5/1/16	2/11/19
OOBP	Al Khobar	8/15/18	8/30/19
	Atlanta FMNH	8/3/18	8/30/19
	Birmingham AL	**9/30/18**	**9/30/19**
	Boston NEA	3/20/18	3/31/19
	Charlotte DP	6/1/18	6/30/19
	Chattanooga TA	3/1/18	3/31/19
	Chicago MSI	3/16/18	3/31/19
	Columbus COSI	**9/22/18**	**9/30/19**
	Davenport Put	3/16/18	3/31/19
	Denver MNS	**9/1/18**	**9/30/19**
	Galveston	5/1/18	5/31/19
	Hague	7/13/18	7/31/19
	Houston MNS	3/30/18	3/31/19
	Jersey City	6/25/18	6/30/19
	Kuwait SCK	8/20/18	5/31/19
	Lehi	3/16/18	3/31/19
	London BFI Ode	9/7/18	6/30/19
	Louisville KSC	8/15/18	6/15/19
	Lubbock SS	5/1/18	5/31/19
	Lucerne	6/1/18	6/30/19
	Melbourne MV	3/21/18	3/31/19
	Milwaukee	6/14/18	6/30/19
	Montreal SC	6/1/18	6/30/19
	New Orleans	3/30/18	3/31/19
	Norwalk MA	**10/5/18**	**10/31/19**
	Omaha Zoo	3/30/18	3/31/19
	Orlando SC	4/16/18	4/30/19
	Paris Geo	6/20/18	12/31/18
	Peoria RM	**9/28/18**	**9/30/19**
	Philadelphia FI	5/1/18	5/1/19
	Phoenix ASC	5/4/18	5/31/19
	Portland OMSI ET	4/20/18	4/30/19
	Richmond SMV	6/1/18	6/30/19
	San Diego RHF	3/1/18	3/31/19
	Seattle PSC 2	4/20/11	4/30/19
	Tijuana	4/1/18	4/30/19
	Toronto OSC	6/15/18	6/30/19
	Victoria DCI	7/1/18	7/31/19
	Yellowstone	5/18/18	10/31/18
Ozarks	Branson	9/93	12/18
Pandas	**Salt Lake City Clark**	**5/19/18**	**3/29/19**
Penguins	Milwaukee	10/23/17	6/20/19
PTJH	**Dubai Vox**	**2/1/17**	**1/30/19**
	Louisville KSC	**7/4/14**	**7/20/20**
Pulse	Vancouver TWS	7/1/17	6/30/19
Rescue	McMinnville	6/1/12	
RME	Dearborn THF		9/1/18
	Lucerne		9/1/18
	Seattle PSC 2		9/1/18
	Toronto OSC		9/1/18
	Vancouver TWS		9/1/18
	Victoria DCI		9/1/18
RobotsNG	**Columbus COSI**	**1/15/16**	**1/31/19**
	Davenport Put	**11/1/15**	**12/31/18**
	Dearborn THF	**3/25/16**	**1/31/19**
	Hampton VASC	**6/20/15**	**6/19/19**
	Hutchinson	**5/20/16**	**6/12/19**
	McMinnville	**11/6/15**	**5/30/19**
	Mumbai Ino	**1/1/18**	**1/1/19**
	Philadelphia FI	10/1/16	
	Portland OMSI ET	**3/15/18**	**3/17/19**
	Regina	**9/1/18**	**9/1/19**
	Tallahassee CLC	**10/16/15**	**11/8/18**
ROTB	Saint Augustine	10/3/15	12/31/18
	Virginia Beach AMSC	10/26/18	10/28/19
SFLIS	Copenhagen TBP	2/9/17	2/9/19
	Dongguan STM	1/1/18	12/31/18
	Paris Geo	1/30/18	1/29/19
	Salt Lake City Clark	**2/16/18**	**11/9/18**
	Seattle PSC 2	9/5/17	9/4/18
	Taichung NMNS	**7/1/17**	**12/30/18**
	Victoria DCI	9/22/17	9/21/18
SOE	Chicago MSI	5/25/18	5/25/19
	Copenhagen TBP	7/15/18	7/15/19
	Victoria DCI	**9/11/18**	
SOG	Baton Rouge LASM	1/1/18	12/31/18
SpaceNex	Calgary TS	1/1/17	12/31/18
	Hutchinson	**9/8/17**	**3/30/19**
	Singapore SC	6/1/18	6/1/19
SpacJunk	Hutchinson	10/31/14	10/31/18
TA	Chicago MSI	5/31/18	5/31/19
	Davenport Put	7/1/14	6/30/19
	Fort Worth	**3/1/17**	**9/30/19**
	Louisville KSC	2/1/16	7/31/19
	Portland OMSI ET	1/26/18	1/31/19
TinyGian	Atlanta FMNH	9/30/17	9/30/18
	Bradford	9/1/16	9/29/18
	Cleveland	12/26/17	9/30/18
	Columbus COSI	10/11/17	10/31/18
	Davenport Put	9/25/15	6/30/19
	Gatineau	12/23/16	3/31/19
	Harrisburg	2/1/18	2/28/19
	Kuwait SCK	9/1/17	9/30/18
	Louisville KSC	**9/21/17**	**9/30/19**
	Melbourne MV	**9/22/17**	**9/30/19**
	Montreal SC	9/18/17	9/30/18
	Pittsburgh CSC	11/15/17	11/30/18
	Poitiers Imax	4/1/16	4/30/19
	Singapore DC	6/1/15	9/30/18
	Sioux Falls	7/1/17	6/30/19
	Sudbury	6/24/16	5/31/19
	Tallahassee CLC	1/6/16	7/31/19
TLR	Sacramento Imx	5/20/16	6/30/19
	Sioux Falls	7/1/17	6/30/19
TO FLY	Washington NASM	7/1/76	12/31/18
ToFly	Washington NASM	3/7/16	12/31/18
TOTIA	Atlanta FMNH	6/15/17	6/30/19
	Davenport Put	2/1/15	6/30/19
	Hutchinson	7/1/17	12/31/19
	Louisville KSC	6/30/18	7/31/19
	Melbourne MV	**9/22/17**	**9/30/19**
	Milwaukee	6/14/18	6/30/19
	New Orleans	7/1/17	6/30/19
	San Diego NHM	1/3/18	3/31/19
	Stockholm		**12/31/18**
	Vancouver TWS	**7/1/17**	**12/31/18**
TTA	Glasgow	4/1/15	4/10/19
	Grand Rapids Cel	**6/2/18**	**7/31/19**
	Moscow Kin	11/1/16	12/31/18
	Portage Cel	**6/1/18**	**7/31/19**
	Prague CC	12/8/17	12/1/18
TurtOdys	Edmonton TWS	9/14/18	9/23/18
	Hastings	**9/13/18**	**5/30/19**
	Lehi	7/13/18	7/12/19
	Port of Spain	**9/27/18**	**9/26/19**
	Sacramento Imx	**9/21/18**	**3/20/19**
	Sioux Falls	9/1/18	1/31/19
	Tallahassee CLC	**10/18/18**	**10/18/19**
	Virginia Beach AMSC	6/30/18	12/31/18
TurtTale	**Katowice CC**		**9/30/19**
	Krakow CC		**9/30/19**
	Lodz CC		**9/30/19**
	Poznan CC		**9/30/19**
	Warsaw CC		**9/30/19**
	Wroclaw CC		**9/30/19**
VanGogh	**Gatineau**	**7/30/18**	**3/30/20**
Vikings	**Philadelphia FI**	**10/13/18**	**10/1/19**
Volcanoes	Albuquerque NMMNH	10/15/18	10/14/19
	Edmonton TWS	10/12/18	10/11/19
	Lehi	**10/13/18**	**10/12/19**
	Portland OMSI ET	10/13/18	10/12/19
WATE	Katoomba	6/1/97	
Wild Ocean	New Orleans	7/1/17	6/30/19
WildAfri	Al Khobar	4/15/16	9/15/18
	Apple Valley Imx	2/1/16	6/30/19
	Charlotte DP	**9/19/18**	**9/30/19**
	Davenport Put	**8/20/17**	**9/30/19**
	Edmonton TWS	10/28/16	10/31/18
	Houston MNS	6/1/16	6/30/19
	Las Palmas	7/15/18	7/31/19
	Lucerne	**9/21/17**	**9/30/19**
	Melbourne MV	1/4/18	1/31/19
	New Orleans	**9/21/18**	**12/20/18**
	Phoenix ASC	3/2/18	3/31/19
	Portland OMSI ET	1/26/18	1/31/19
	Richmond SMV	2/1/17	
	Tallahassee CLC	5/15/16	6/30/19
WildOcea	New Orleans	7/1/17	6/30/19
WM	**Cleveland**	**6/15/18**	**6/1/19**
WOTA	Charlotte DP	2/18/18	2/28/19
	Gatineau	3/15/18	3/31/19
	Saint Félicien	4/1/18	11/30/19
	Vancouver TWS	7/1/17	6/30/19
WTTR3D	Galveston	5/1/18	9/30/18
	Houston MNS	4/1/18	5/31/19
WWDPP3D	Bradford	9/16/15	9/30/19
	Edmonton TWS	5/1/15	5/31/19
	Erie	9/15/16	12/15/19
	Melbourne MV	**9/22/17**	**9/30/19**
	New Orleans	6/22/18	12/31/18
	Peoria RM	6/30/18	6/30/19
	Portland OMSI ET	1/26/18	1/31/19
	Tallahassee CLC	4/19/16	7/31/19
	Valencia Spn	7/1/16	3/31/19

Sept.-Oct. 2018 by Theater

Theater	Film	Open	Close
Aguascalientes	**ExtrWeat**	**5/26/18**	**11/26/18**
	MOC	4/1/18	9/30/18
Al Khobar	OOBP	8/15/18	8/30/19
	WildAfri	4/15/16	9/15/18
Alamogordo	MOC	3/31/18	3/31/19
Albuquerque NMMNH	**AMJ**	**7/16/18**	**7/15/19**
	HumpbWha	12/1/17	11/30/18
	NPA	4/2/18	4/1/19
	Volcanoes	10/15/18	10/14/19
Apple Valley Imx	**HumpbWha**	**7/12/18**	**7/12/19**
	WildAfri	2/1/16	6/30/19
Athens Eug	AsterME	3/30/17	9/30/18
	Everest	**10/1/18**	**2/28/19**
	JTS	11/29/17	12/31/18
Atlanta FMNH	**AsterME**	**1/11/18**	**1/10/20**
	BackWild	3/23/18	9/30/18
	EarthFli	6/21/18	6/30/19
	IncrPred	9/30/17	9/30/18
	MA	2/9/18	2/8/19
	OOBP	8/3/18	8/30/19
	TinyGian	9/30/17	9/30/18
	TOTIA	6/15/17	6/30/19
Atlantic City	**GBR3D**	**7/1/18**	**3/1/19**
Austin TSHM	AmazAdve	9/1/18	8/15/19
	ConqOTS	3/1/18	2/28/19
	DreamBig	**10/1/17**	**9/1/19**
	FOTB	10/1/16	12/31/18
Baltimore MSC	DreamBig	2/17/17	6/30/19
	HumpbWha	**7/1/15**	**7/12/19**
	NPA	**7/1/18**	**6/30/19**
Baton Rouge LASM	**DreamBig**	**6/30/17**	**12/30/18**
	L&C	11/3/15	11/2/18
	Mummies	3/1/17	3/31/19
	SOG	1/1/18	12/31/18
Beijing 3D CSTM	AmazAdve	2/6/18	2/15/19
Beijing Dome CSTM	Greece	1/15/18	1/14/19
Berlin CS	G3DNW	4/20/14	10/19/18
Birmingham AL	BackWild	3/23/18	9/30/18
	DreamBig	**2/17/17**	**2/28/19**
	OOBP	**9/30/18**	**9/30/19**
Boston MOS	DreamBig	10/6/17	10/5/18
	GBR3D	**7/5/18**	**7/4/19**
Boston NEA	GWS	5/31/13	6/30/19
	OOBP	3/20/18	3/31/19
Bradford	DreamBig	1/1/18	12/31/19
	MOTUW	**4/12/14**	**6/30/19**
	TinyGian	9/1/16	9/29/18
	WWDPP3D	9/16/15	9/30/19
Branson	NPA	3/18/16	12/31/18
	Ozarks	9/93	12/18
Calgary TS	Bugs	9/28/15	9/28/18
	ExtrWeat	**9/1/17**	**9/1/20**
	SpaceNex	1/1/17	12/31/18
Carnival Horizon	**NPA**	**4/1/18**	**10/5/19**
Carnival Vista	NPA	4/1/18	10/1/18
Chandigarh	**AMJ**	**6/15/18**	**6/14/20**
	Everest	**6/15/18**	**6/14/20**
Chantilly	DreamBig	2/17/17	2/16/20
	FightPil	12/10/04	
	LITAOA	**5/1/15**	
Charlotte DP	AmazAdve	5/1/17	6/30/19
	DreamBig	8/26/17	9/1/18
	FlyMons	**5/26/18**	**12/31/19**
	GlobSoun	11/1/17	11/1/19
	OOBP	6/1/18	6/30/19
	WildAfri	**9/19/18**	**9/30/19**

Theater	Film	Open	Close
	WOTA	2/18/18	2/28/19
Chattanooga TA	BackWild	3/16/18	3/15/19
	JMCSO	1/31/18	1/31/19
	OOBP	3/1/18	3/31/19
Chicago MSI	AmazAdve	5/26/17	6/30/19
	OOBP	3/16/18	3/31/19
	SOE	5/25/18	5/25/19
	TA	5/31/18	5/31/19
Cleveland	AmazAdve	1/9/18	6/30/19
	AMJ	3/23/18	3/22/19
	DreamBig	3/17/17	2/18/19
	GBR3D	**8/1/18**	**7/31/19**
	TinyGian	12/26/17	9/30/18
	WM	**6/15/18**	**6/1/19**
Columbus COSI	AmazAdve	1/10/18	6/30/19
	AMJ	5/25/18	5/24/19
	BackWild	5/24/18	11/24/18
	Bugs	9/15/14	6/30/19
	D-Day	3/9/18	3/9/19
	Electrop	**4/1/17**	**3/30/19**
	ExtrWeat	9/1/17	9/1/18
	FlyMons	**7/17/17**	**7/30/19**
	FOTB	9/1/14	6/30/19
	IncrPred	**9/22/18**	**9/30/19**
	JTTSP	11/26/16	3/8/19
	MOC	4/1/17	3/31/19
	NPA	3/8/18	3/8/19
	OOBP	**9/22/18**	**9/30/19**
	RobotsNG	**1/15/16**	**1/31/19**
	TinyGian	10/11/17	10/31/18
Columbus GA NIM	D-Day	1/31/18	1/31/19
	Jerusale	**10/18/13**	**2/7/19**
	JTS	12/4/15	4/30/19
	NPA	**4/1/16**	**5/9/19**
Copenhagen TBP	JTTSP	6/15/17	12/16/18
	MOTUW	**6/19/14**	**6/18/19**
	SFLIS	2/9/17	2/9/19
	SOE	7/15/18	7/15/19
Corpus Christi Lex	ACGOTS	6/17/16	
	FightPil	5/12/12	
Daqing STM	AmazAdve	2/16/18	2/15/19
	NPA	1/1/18	12/31/18
Davenport Put	**Bugs**	**10/1/12**	**4/28/20**
	D-Day	9/10/17	9/10/18
	DreamBig	**2/24/17**	**12/31/18**
	ExtrWeat	**10/15/16**	**10/14/19**
	FlyMons	**3/27/14**	**6/1/20**
	FOTB	2/15/13	6/30/19
	G3DNW	10/17/14	10/20/18
	HidUniv	10/1/17	10/31/18
	L&C		**4/26/20**
	LastReef	7/1/15	6/30/19
	LITAOA	**7/1/16**	**10/1/20**
	MOTUW	**2/1/14**	**1/31/19**
	OOBP	3/16/18	3/31/19
	RobotsNG	**11/1/15**	**12/31/18**
	TA	7/1/14	6/30/19
	TinyGian	9/25/15	6/30/19
	TOTIA	2/1/15	6/30/19
	WildAfri	**8/20/17**	**9/30/19**
Dayton	ACGOTS	6/17/16	12/31/18
	D-Day	5/26/17	12/31/18
	FightPil	3/1/13	
	JTS	3/6/15	12/31/18
Dearborn THF	AmazAdve	3/2/18	2/28/19
	AMJ	2/16/18	2/15/19
	BackWild	8/1/18	7/31/19
	D-Day	2/27/17	2/28/19
	DreamBig	**2/17/17**	**12/31/18**
	FOTB	2/8/17	12/31/18
	RME		9/1/18
	RobotsNG	**3/25/16**	**1/31/19**
Denver MNS	AMJ	2/16/18	2/15/19
	OOBP	**9/1/18**	**9/30/19**
Detroit MSC	**ExtrWeat**	**5/22/17**	**12/31/18**
Dongguan STM	SFLIS	1/1/18	12/31/18
Dubai Vox	**Bugs**	**2/1/17**	**1/30/19**
	MOTUW	**2/1/17**	**3/30/19**
	PTJH	**2/1/17**	**1/30/19**
Edmonton TWS	AmazAdve	1/19/18	6/30/19
	BackWild	9/14/18	9/23/18
	Bugs	6/30/18	6/30/19
	D-Day	3/1/18	12/31/18
	DreamBig	**3/25/17**	**2/28/19**
	DSC	**9/14/18**	**9/23/19**
	ExtrWeat	**6/2/17**	**6/1/19**
	FlyMons	**1/4/16**	**1/1/19**
	FOTB	12/26/13	6/30/19
	G3DNW	**10/22/18**	**1/24/19**
	GBR3D	**7/1/18**	**6/30/19**
	GlobSoun	10/1/16	10/1/18
	IncrPred	10/6/17	10/31/18
	JTM	12/26/13	6/30/19
	JTTSP	**1/16/15**	
	MOC	1/27/17	12/31/18
	MOTUW	**9/14/18**	**9/23/18**
	NPA	**2/12/16**	**10/15/19**
	TurtOdys	9/14/18	9/23/18
	Volcanoes	10/12/18	10/11/19
	WildAfri	10/28/16	10/31/18
	WWDPP3D	5/1/15	5/31/19
Erie	ACGOTS	10/1/17	10/31/18
	AmazAdve	6/30/18	12/31/18
	BackWild	8/4/18	2/23/19
	EarthFli	4/1/18	3/31/19
	WWDPP3D	9/15/16	12/15/19
Fort Lauderdale	BackWild	6/1/18	5/31/20
	DreamBig	2/17/17	2/17/19
	GBR3D	**10/5/18**	**10/4/19**
	IncrPred	9/29/17	9/29/18
Fort Worth	AMJ	2/16/18	2/15/19
	CRA	**6/10/17**	**9/30/19**
	DinoAliv	**7/15/16**	**9/30/19**
	Dolphins	**5/28/16**	**9/30/19**
	DreamBig	**2/17/17**	**6/30/19**
	NPA	**2/12/16**	**5/31/19**
	TA	**3/1/17**	**9/30/19**
Galveston	AMJ	3/1/18	2/18/19
	BackWild	8/21/18	2/28/19
	GWS	6/28/14	9/30/18
	Jerusale	**11/12/15**	**4/22/19**
	OOBP	5/1/18	5/31/19
	WTTR3D	5/1/18	9/30/18
Garden City	**AsterME**	**5/19/17**	**6/18/20**
	BackWild	9/25/18	9/24/19
	CRA	11/1/17	12/31/18
	DreamBig	12/1/17	11/30/18
Garza Garcia	**ExtrWeat**	**3/1/18**	**6/30/19**
Gatineau	AmazAdve	12/16/17	12/15/18
	BackWild	6/1/18	5/31/19
	D-Day	9/1/15	3/31/19
	Dolphins	**7/9/18**	**3/20/20**
	Everest	**7/30/18**	**3/30/20**
	FOTB	10/5/12	6/30/19
	GWS	10/7/16	3/31/20
	MOC	1/10/18	1/31/19
	TinyGian	12/23/16	3/31/19
	VanGogh	**7/30/18**	**3/30/20**
	WOTA	3/15/18	3/31/19
Glasgow	**HidUniv**		**12/30/18**
	TTA	4/1/15	4/10/19
Grand Canyon DCI	**GC**	**11/1/99**	**12/19**
	NPA	3/16/18	3/8/19
Grand Rapids Cel	**DreamBig**	**7/15/17**	**7/31/19**
	GCA	**9/1/18**	**7/31/19**
	HumpbWha	**9/1/18**	**7/31/19**
	NPA	**10/1/18**	**7/31/19**
	TTA	**6/2/18**	**7/31/19**
Guangzhou GSC	MA	12/1/17	11/30/18
Guayaquil	AmazAdve	4/16/18	2/28/19
	DreamBig	4/16/18	4/15/19
Hague	**AMJ**	**7/3/18**	**7/2/19**
	FON	**10/4/12**	**10/3/20**
	GWS	4/1/18	4/30/19
	JTM		6/30/19
	NPA	2/16/16	12/31/18
	OOBP	7/13/18	7/31/19
Hampton VASC	ACGOTS	11/10/17	11/9/18
	AmazAdve	3/31/18	3/30/19
	AMJ	**10/1/18**	**9/30/19**
	D-Day	**10/17/18**	**10/17/19**
	DreamBig	2/17/17	2/17/19
	HidUniv	**9/7/18**	**12/31/19**
	Hurrican	6/15/17	6/14/19
	JTS	2/21/15	2/20/19
	NPA	4/29/16	4/29/19
	RobotsNG	**6/20/15**	**6/19/19**
Hangzhou LCSTM	MA	12/1/17	11/30/18
Harrisburg	DIA	1/1/16	12/31/18
	DreamBig	2/18/17	2/18/19
	FOTB	2/2/14	6/30/19
	GBR3D	**7/6/18**	**7/5/19**
	TinyGian	2/1/18	2/28/19
Hartberg	Amazon	3/25/15	12/31/18
	CRA	3/25/15	12/31/18
	Everest		12/31/18
	GCA	**3/25/15**	**12/31/18**
	LivingSe	10/1/13	12/31/18
Hastings	**AMJ**	**6/21/18**	**6/20/19**
	D-Day	5/15/15	12/31/18
	DreamBig	10/19/17	10/18/18
	FOTB	3/17/13	6/30/19
	G3DNW	2/10/15	6/10/19
	NPA	**6/9/16**	**7/1/19**
	TurtOdys	**9/13/18**	**5/30/19**
Hong Kong SM	**NPA**	**9/8/18**	**2/28/19**
Houston MNS	AmazAdve	4/21/17	12/31/18
	DinoAliv	7/1/17	6/30/19
	DreamBig	2/17/17	12/31/19
	EarthFli	**9/1/18**	**10/10/18**
	FOTB	10/4/12	9/30/18
	Hurrican	1/8/18	10/31/18
	IncrPred	9/15/17	9/30/18
	NPA	**7/1/18**	**12/31/19**
	OOBP	3/30/18	3/31/19
	WildAfri	6/1/16	6/30/19
	WTTR3D	4/1/18	5/31/19
Huntsville USSRC	**ExtrWeat**	**4/1/18**	**4/1/19**
	FightPil	7/1/13	
	ISR	5/5/18	4/30/19
Hutchinson	ACGOTS	5/29/17	11/30/18
	AirRacer	1/19/18	1/31/19
	D-Day	12/31/17	1/31/20
	GWS	7/1/17	12/31/19
	Kenya	5/30/15	6/30/19
	RobotsNG	**5/20/16**	**6/12/19**
	SpaceNex	**9/8/17**	**3/30/19**
	SpacJunk	10/31/14	10/31/18
	TOTIA	7/1/17	12/31/19
Indianapolis Imx	AmazAdve	9/8/17	6/7/19
	AMJ	**6/8/18**	**6/7/19**
	HumpbWha	**8/17/16**	**6/5/19**
	Hurrican	2/9/18	2/8/19
	JTS	8/31/18	8/30/19
	NPA	2/12/16	12/31/18
Jersey City	BackWild	8/4/18	8/3/19
	DreamBig	**2/17/17**	**12/31/19**
	GBR3D	**8/1/18**	**7/31/19**
	Jerusale	**9/1/18**	**8/31/20**
	MOC	11/1/17	12/31/18
	NPA	2/12/16	6/24/19
	OOBP	6/25/18	6/30/19
Jerusalem YP	**Jerusale**	**12/7/17**	**12/6/18**
Kagoshima	AmazAdve	10/10/18	12/31/18
Kansas City Sci	DinoAliv	7/3/18	7/31/19
	ExtrWeat	**10/15/16**	**10/14/19**
Katoomba	WATE	6/1/97	
Katowice CC	**AfricAdv**		**9/30/19**
	G3DNW	6/18/14	9/19/18
	TurtTale		**9/30/19**
Keelung NMMST	**HumpbWha**	**7/1/18**	**6/30/19**
Kenner	**FlyMons**	**6/4/16**	**6/3/20**
Killeen	**FlyMons**	**9/15/17**	**9/15/20**
Krakow CC	**AfricAdv**		**9/30/19**
	G3DNW	6/18/14	9/19/18
	TurtTale		**9/30/19**
KSC 1	JTS	2/27/15	
Kuwait SCK	AmazAdve	6/14/18	12/31/18
	ExtrWeat	**11/1/17**	**4/30/19**
	Hurrican	4/19/18	10/18/18
	OOBP	8/20/18	5/31/19
	TinyGian	9/1/17	9/30/18
Lansing Cel	**DreamBig**	**6/30/17**	**7/31/19**
	HidUniv	**7/1/18**	**7/31/19**
	NPA	**10/1/18**	**7/31/19**
Las Palmas	WildAfri	7/15/18	7/31/19
Lehi	BackWild	5/24/18	5/24/19
	IncrPred	**9/29/17**	**9/30/19**
	LITAOA	**4/10/15**	**7/30/19**
	OOBP	3/16/18	3/31/19
	TurtOdys	7/13/18	7/12/19
	Volcanoes	**10/13/18**	**10/12/19**
Leon Exp	**AMJ**	**6/1/18**	**11/30/18**
Lodz CC	**AfricAdv**		**9/30/19**
	G3DNW	6/18/14	9/19/18
	TurtTale		**9/30/19**
London BFI Ode	**NPA**	**2/12/16**	**7/1/19**
	OOBP	9/7/18	6/30/19
London SM	DreamBig	9/4/17	8/31/19
Los Angeles CSC	AmazAdve	10/11/17	10/10/18
	JTS	10/29/15	9/3/18
	MOE	**3/24/18**	**1/6/19**
Louisville KSC	BackWild	3/23/18	3/22/19
	DreamBig	2/17/17	9/1/18
	FON	**6/18/15**	**7/2/20**
	FOTB	9/30/12	6/30/19
	LastReef	2/8/14	6/30/19
	OOBP	8/15/18	6/15/19
	PTJH	**7/4/14**	**7/20/20**
	TA	2/1/16	7/31/19

Theater	Film	Open	Close
	TinyGian	**9/21/17**	**9/30/19**
	TOTIA	6/30/18	7/31/19
Lubbock SS	**AMJ**	**7/6/18**	**7/6/19**
	DreamBig	2/2/18	2/1/19
	MOC	10/1/17	10/31/18
	OOBP	5/1/18	5/31/19
Lucerne	**AMJ**	**9/1/18**	**9/1/19**
	NPA	**3/17/16**	**11/30/18**
	OOBP	6/1/18	6/30/19
	RME		9/1/18
	WildAfri	**9/21/17**	**9/30/19**
Lucknow	Greece	12/1/17	11/30/18
McMinnville	**DSC**	**6/16/16**	
	FightPil	3/23/12	
	LITAOA	**4/10/15**	**5/30/19**
	LOF	3/23/12	
	Rescue	6/1/12	
	RobotsNG	**11/6/15**	**5/30/19**
Melbourne MV	**AmazAdve**	**9/15/17**	**9/13/19**
	AMJ	**8/23/18**	
	AMMM	7/11/16	
	FON	**9/1/15**	**12/31/18**
	MA	1/30/17	1/28/19
	Mummies	**9/22/17**	**9/30/19**
	OOBP	3/21/18	3/31/19
	TinyGian	**9/22/17**	**9/30/19**
	TOTIA	**9/22/17**	**9/30/19**
	WildAfri	1/4/18	1/31/19
	WWDPP3D	**9/22/17**	**9/30/19**
Memphis Pink	**AMJ**	**8/11/18**	**8/10/19**
	DreamBig	2/10/18	3/2/19
	ExtrWeat	**3/24/17**	**8/31/19**
	JTTSP	**5/26/18**	**5/25/19**
Mexicali	**AMJ**	**9/22/18**	**3/21/19**
	NPA	4/22/18	10/22/18
Mexico City Pap	AmazAdve	11/17/17	11/16/18
	AMJ	3/15/18	3/14/19
	DreamBig	**3/15/17**	**12/31/18**
Mexico City PAP	**HumpbWha**	**11/16/16**	**11/30/18**
Milwaukee	HumpbWha	2/1/18	1/30/19
	MounQues	**10/1/18**	**9/30/19**
	OOBP	6/14/18	6/30/19
	Penguins	10/23/17	6/20/19
	TOTIA	6/14/18	6/30/19
Mobile	DreamBig	9/23/17	9/22/18
	GlobSoun	10/18/17	10/1/18
	NPA	5/26/18	5/25/19
Monterrey Pap	AMJ	3/15/18	9/15/18
	DreamBig	2/2/18	2/1/19
	JTTSP	**6/10/16**	**12/31/18**
Montreal SC	AMJ	5/18/18	5/17/19
	OOBP	6/1/18	6/30/19
	TinyGian	9/18/17	9/30/18
Moscow Kin	AMJ	4/15/18	4/14/19
	DreamBig	9/10/17	12/31/18
	FlyMons	**10/1/16**	**12/31/18**
	LastReef	6/1/16	10/31/18
	NPA	9/17/16	12/31/18
	TTA	11/1/16	12/31/18
Mumbai Ino	**MOTUW**	**1/1/18**	**12/31/19**
	RobotsNG	**1/1/18**	**1/1/19**
Nanchang JTSC	**CRA**		**12/30/18**
New Delhi ICC	ND		
New Orleans	HOTB	9/15/15	12/31/18
	OOBP	3/30/18	3/31/19
	TOTIA	7/1/17	6/30/19
	Wild Ocean	7/1/17	6/30/19
	WildAfri	**9/21/18**	**12/20/18**
	WildOcea	7/1/17	6/30/19
	WWDPP3D	6/22/18	12/31/18
New York AMNH	AmazAdve	3/9/18	9/14/18
	BackWild	9/14/18	3/13/19
Niagara Can DCI	**Niagara**	**7/1/86**	
Niagara NY DCI	**Niagara**	**5/1/07**	
Norwalk MA	BackWild	3/24/18	9/30/18
	GWS	7/1/18	9/3/18
	OOBP	**10/5/18**	**10/31/19**
Nuremberg	HumpbWha		12/31/18
	NPA	**3/10/16**	**12/31/18**
Omaha Zoo	OOBP	3/30/18	3/31/19
Orlando SC	AmazAdve	2/24/18	2/23/19
	AOTE	11/1/17	10/31/18
	EarthFli	4/1/18	4/30/19
	G3DNW	7/5/14	1/4/19
	NPA	2/12/16	11/17/18
	OOBP	4/16/18	4/30/19
Paris Geo	AMJ	3/7/18	3/6/19
	OOBP	6/20/18	12/31/18
	SFLIS	1/30/18	1/29/19
Parker	**ExtrWeat**	**9/30/17**	**9/30/18**

Theater	Film	Open	Close
	HidUniv	**7/29/18**	**7/21/19**
Pensacola NAM	ACGOTS	5/26/17	6/30/19
	D-Day	7/1/18	12/31/18
	MOF	11/8/96	
Peoria RM	AmazAdve	6/20/18	1/19/19
	AMJ	2/16/18	2/15/19
	D-Day	4/2/15	10/31/18
	FOTB	4/1/16	6/30/19
	Mummies	**10/16/18**	**10/31/20**
	OOBP	**9/28/18**	**9/30/19**
	WWDPP3D	6/30/18	6/30/19
Philadelphia FI	**AsterME**	**1/1/17**	**1/1/20**
	DreamBig	3/1/18	2/28/19
	ExtrWeat	**2/11/17**	**2/11/19**
	G3DNW	9/6/16	12/31/18
	MOC	9/30/17	9/30/18
	OOBP	5/1/18	5/1/19
	RobotsNG	10/1/16	
	Vikings	**10/13/18**	**10/1/19**
Phoenix ASC	AmazAdve	8/16/18	2/15/19
	AOTE	12/26/17	12/31/18
	IncrPred	**10/19/18**	**10/31/19**
	OOBP	5/4/18	5/31/19
	WildAfri	3/2/18	3/31/19
Pittsburgh CSC	AmazAdve	11/17/17	6/30/19
	BackWild	8/31/18	6/30/19
	DreamBig	11/17/17	12/31/18
	HumpbWha	6/17/16	12/31/18
	NPA	2/12/16	12/31/18
	TinyGian	11/15/17	11/30/18
Poitiers Imax	TinyGian	4/1/16	4/30/19
Poitiers Imax 3D	**MOTUW**	**2/1/16**	**1/31/19**
Port of Spain	FOTB	10/6/17	10/5/18
	Hurrican	4/26/18	4/25/19
	JMCSO	2/7/17	2/28/19
	JTM	10/6/17	10/5/18
	TurtOdys	**9/27/18**	**9/26/19**
Portage Cel	**GCA**	**9/1/18**	**7/31/19**
	HumpbWha	**9/1/18**	**7/31/19**
	NPA	**10/1/18**	**7/31/19**
	TTA	**6/1/18**	**7/31/19**
Portland OMSI ET	AmazAdve	2/16/18	2/15/19
	AOTE	1/26/18	1/31/19
	BackWild	9/7/18	9/6/19
	DinoAliv	1/26/18	1/31/19
	DreamBig	**2/17/17**	**3/1/19**
	FlyMons	**5/22/14**	**4/9/19**
	FON	**10/22/17**	**10/21/18**
	FOTB	1/7/14	6/30/19
	GWS	1/26/18	1/31/19
	JMCSO	3/1/17	2/28/19
	JTS	3/20/15	3/21/19
	MOE	**10/6/18**	**1/27/19**
	Mummies	**1/26/18**	**3/31/19**
	NPA	**2/12/16**	**3/1/19**
	OOBP	4/20/18	4/30/19
	RobotsNG	**3/15/18**	**3/17/19**
	TA	1/26/18	1/31/19
	Volcanoes	10/13/18	10/12/19
	WildAfri	1/26/18	1/31/19
	WWDPP3D	1/26/18	1/31/19
Poznan CC	**AfricAdv**		**9/30/19**
	G3DNW	6/18/14	9/19/18
	TurtTale		**9/30/19**
Prague CC	G3DNW	5/22/14	5/21/19
	TTA	12/8/17	12/1/18
Raleigh	**AMJ**	**9/1/18**	**8/31/19**
	BackWild	6/4/18	6/3/19
	D-Day	5/23/14	2/1/19
	DreamBig	**2/17/17**	**12/31/18**
	FOTB	10/19/17	6/30/19
Regina	AmazAdve	2/16/18	2/15/19
	AMJ	5/11/18	5/12/19
	DreamBig	**2/17/17**	**12/31/18**
	RobotsNG	**9/1/18**	**9/1/19**
Richmond SMV	AmazAdve	5/1/18	4/30/19
	DreamBig	**2/18/17**	**12/31/18**
	FOTB	5/1/13	6/30/19
	GCA	6/1/16	7/31/19
	HumpbWha	3/14/15	7/31/19
	NPA	**4/10/16**	**4/30/19**
	OOBP	6/1/18	6/30/19
	WildAfri	2/1/17	
Rishon YP	**Jerusale**	**12/7/17**	**12/6/18**
Rochester MSC	Dolphins	12/1/17	12/31/18
Sacramento Imx	AmazAdve	9/8/17	6/30/19
	ExtrWeat	**2/24/17**	
	FOTB	8/13/13	5/31/19
	GWS	2/20/15	6/30/19
	HumpbWha	**8/19/16**	**10/24/19**

Theater	Film	Open	Close
	Jerusale	**9/15/14**	**10/31/19**
	LastReef	5/20/16	6/30/19
	Mummies	1/1/17	6/30/19
	TLR	5/20/16	6/30/19
	TurtOdys	**9/21/18**	**3/20/19**
Saint Augustine	**AMJ**	**6/1/18**	**5/30/19**
	ExtrWeat	**10/15/16**	**10/14/19**
	FOTB	1/18/13	6/30/19
	GBR3D	**8/20/18**	**8/19/20**
	Gruffalo	1/1/15	12/31/18
	GruffChi	2/1/15	12/31/18
	L&C		**6/14/19**
	ROTB	10/3/15	12/31/18
Saint Félicien	AOTE	4/1/18	11/30/19
	WOTA	4/1/18	11/30/19
Saint Louis SC	**ExtrWeat**	**1/13/17**	**12/12/18**
	NPA	**2/12/16**	**3/31/19**
Saint Paul SMM	DreamBig	3/2/18	12/31/18
	LITAOA	**10/12/18**	**3/10/19**
Salt Lake City Clark	**ConqOTS**	**4/7/18**	**11/9/18**
	GBR3D	**7/21/18**	**3/29/19**
	Pandas	**5/19/18**	**3/29/19**
	SFLIS	**2/16/18**	**11/9/18**
San Diego MV AMC	ACGOTS	11/10/17	11/9/18
San Diego NHM	BackWild	8/1/18	2/28/19
	TOTIA	1/3/18	3/31/19
San Diego RHF	Bugs	7/1/14	6/30/19
	DreamBig	3/10/17	4/1/19
	FOTB	10/12/12	6/30/19
	GBR3D	**7/5/18**	**7/5/19**
	OOBP	3/1/18	3/31/19
San Jose Tech	AMJ	2/17/18	2/16/19
	GWS	10/31/18	1/31/20
	Jerusale	**3/15/15**	**6/20/19**
	L&C	**6/8/16**	**6/20/19**
San Simeon DCI	**HCBTD**	**8/17/96**	
Seattle PSC 2	AmazAdve	11/10/17	
	AMJ	**9/7/18**	**9/6/19**
	D-Day	3/29/14	6/30/19
	DreamBig	2/17/17	2/16/19
	OOBP	4/20/11	4/30/19
	RME		9/1/18
	SFLIS	9/5/17	9/4/18
Shanghai 3D STM	AmazAdve	8/1/18	8/1/19
	DreamBig	9/19/17	9/18/18
	MA	12/1/17	11/30/18
Shijiazhuang HST	Alaska	1/1/17	1/1/19
Singapore DC	**DreamBig**	**10/1/18**	**4/1/19**
	TinyGian	6/1/15	9/30/18
Singapore SC	SpaceNex	6/1/18	6/1/19
Sioux Falls	AmazAdve	12/2/17	6/30/19
	DreamBig	**6/2/17**	**6/30/19**
	ISR	5/4/18	4/30/19
	LastReef	1/30/15	6/30/19
	MOC	1/25/18	1/31/19
	TinyGian	7/1/17	6/30/19
	TLR	7/1/17	6/30/19
	TurtOdys	9/1/18	1/31/19
Speyer Dome	**Dolphins**		**12/30/18**
	Jerusale	**12/12/13**	**12/11/19**
	JTTSP	**5/25/17**	**12/31/18**
	MOF	12/1/97	12/31/18
Stockholm	Animalop	10/1/17	10/1/19
	DreamBig	3/15/18	3/15/19
	JTTSP		**12/31/18**
	TOTIA		**12/31/18**
Sudbury	AmazAdve	10/6/17	10/5/18
	BackWild	9/4/18	6/30/19
	DreamBig	2/17/17	6/30/19
	HumpbWha	**9/24/15**	
	MOC	**9/7/17**	**10/31/19**
	NPA	2/12/16	3/30/19
	TinyGian	6/24/16	5/31/19
Syracuse MOST	**DinoAliv**	**10/5/18**	**1/31/19**
Taichung NMNS	**SFLIS**	**7/1/17**	**12/30/18**
Tallahassee CLC	AmazAdve	4/28/17	6/30/19
	AMJ	2/16/18	2/15/19
	ExtrWeat	**5/19/17**	**5/1/20**
	FOTB	1/18/13	6/30/19
	MOTUW	**3/17**	**3/20**
	RobotsNG	**10/16/15**	**11/8/18**
	TinyGian	1/6/16	7/31/19
	TurtOdys	**10/18/18**	**10/18/19**
	WildAfri	5/15/16	6/30/19
	WWDPP3D	4/19/16	7/31/19
Thessaloniki	DreamBig	10/28/17	10/27/18
Tijuana	AMJ	3/1/18	2/28/19
	ExtrWeat	**7/28/17**	**6/1/19**
	Jerusale	**4/1/15**	**3/14/19**
	OOBP	4/1/18	4/30/19

Theater	Film	Open	Close
Toronto OP	ACGOTS	6/1/18	6/1/19
Toronto OSC	AmazAdve	10/6/17	9/30/18
	CRA	2/24/18	2/23/19
	JTS	10/15/18	10/15/19
	OOBP	6/15/18	6/30/19
	RME		9/1/18
Valencia Spn	**AMJ**	**7/1/18**	**6/3/19**
	DreamBig	**4/1/18**	**6/30/19**
	JMCSO	4/1/17	9/30/18
	NPA	10/7/16	9/30/18
	WWDPP3D	7/1/16	3/31/19
Vancouver TWS	AmazAdve	12/22/17	12/21/18
	AMJ	3/17/18	3/16/19
	GlobSoun	10/1/16	10/1/18
	HumpbWha	**10/9/15**	**6/30/19**
	Mummies	7/1/17	6/30/19
	NPA	**2/12/16**	**6/30/19**
	Pulse	7/1/17	6/30/19
	RME		9/1/18
	TOTIA	**7/1/17**	**12/31/18**
	WOTA	7/1/17	6/30/19
Victoria DCI	AmazAdve	4/14/17	6/30/19
	AMJ	3/9/18	3/8/19
	FOTB	4/5/13	6/30/19
	Hurrican	2/1/18	1/31/19
	MOE	**5/18/18**	**12/31/18**
	MOTUW	**10/9/15**	**11/8/18**
	OOBP	7/1/18	7/31/19
	RME		9/1/18
	SFLIS	9/22/17	9/21/18
	SOE	**9/11/18**	
Virginia Beach AMSC	BackWild	6/30/18	12/31/18
	G3DNW	5/28/16	12/31/18
	ROTB	10/26/18	10/28/19
	TurtOdys	6/30/18	12/31/18
Warsaw CC	**AfricAdv**		**9/30/19**
	G3DNW	6/18/14	9/19/18
	TurtTale		**9/30/19**
Washington NASM	ACGOTS	5/26/17	5/25/19
	AmazAdve	4/21/18	12/31/18
	D-Day	5/23/17	5/22/19
	DreamBig	2/17/17	2/16/20
	Jerusale	**10/23/17**	**12/31/18**
	JTS	3/6/15	
	LITAOA	**4/10/15**	
	TO FLY	7/1/76	12/31/18
	ToFly	3/7/16	12/31/18
Wroclaw CC	**AfricAdv**		**9/30/19**
	G3DNW	10/4/17	9/19/18
	TurtTale		**9/30/19**
Yellowstone	IncrPred	5/18/18	10/31/18
	NPA	5/1/16	2/11/19
	OOBP	5/18/18	10/31/18

Key to Film Abbreviations

Film	Title	Year	Dist
ACGOTS	Aircraft Carrier: Guardian of the Seas	2016	3D K2
AfricAdv	African Adventure 3D	2007	3D nWP
AirRacer	Air Racers 3D: Forces of Flight	2012	3D K2
Alaska	Alaska: Spirit of the Wild	1997	K2
AmazAdve	Amazon Adventure	2017	3D SKF
Amazon	Amazon	1997	MFF
AMJ	America's Musical Journey	2018	3D MFF
AMMM	Amazing Mighty Micro Monsters 3D	2016	3D nWP
Animalop	Animalopolis	2008	3D K2
AOTE	Antarctica 3D: On the Edge	2014	3D GSF
AsterME	Asteroid: Mission Extreme	2016	3D CPD
BackWild	Backyard Wilderness	2018	3D SKF
Bugs	Bugs!	2003	3D SKF
ConqOTS	Conquest of the Skies	2017	3D nWP
CRA	Coral Reef Adventure	2003	MFF
D-Day	D-Day: Normandy 1944	2014	3D K2
DIA	Dream is Alive, The	1985	IMAX
DinoAliv	Dinosaurs Alive	2007	3D GSF
Dolphins	Dolphins	2000	MFF
DreamBig	Dream Big: Engineering Our World	2017	3D MFF
DSC	Deepsea Challenge 3D	2015	3D CPD
EarthFli	Earthflight	2017	3D GSF
Electrop	Electropolis	2014	3D CPD
Everest	Everest	1998	MFF
ExtrWeat	Extreme Weather	2016	3D CPD
FightPil	Fighter Pilot: Operation Red Flag	2004	3D K2
FlyMons	Flying Monsters 3D	2011	3D CPD
FON	Forces of Nature	2004	CPD
FOTB	Flight of the Butterflies	2012	3D SKF
G3DNW	Galapagos 3D: Nature's Wonderland	2014	3D nWP
GBR3D	Great Barrier Reef	2018	3D MFF
GC	Grand Canyon: The Hidden Secrets	1985	DCI
GCA	Grand Canyon Adventure: River at Risk	2008	3D MFF
GlobSoun	Global Soundscapes: Mission to Record the Earth	2016	3D FIC
Greece	Greece: Secrets of the Past	2006	MFF
Gruffalo	Gruffalo, The	2014	3D B&D
GruffChi	Gruffalo's Child	2015	3D B&D
GWS	Great White Shark	2013	3D GSF
HCBTD	Hearst Castle: Building the Dream	1996	DCI
HidUniv	Hidden Universe	2013	3D MFF
HOTB	Hurricane on the Bayou	2006	MFF
HumpbWha	Humpback Whales	2015	3D MFF
Hurrican	Hurricane	2017	3D nWP
IncrPred	Incredible Predators	2016	3D GSF
ISR	In Saturn's Rings	2018	B&D
Jerusale	Jerusalem	2013	3D CPD
JMCSO	Jean-Michel Cousteau's Secret Ocean	2015	3D K2
JTM	Journey to Mecca	2009	CPD
JTS	Journey to Space	2015	3D K2
JTTSP	Journey to the South Pacific	2013	3D MFF
Kenya	Kenya 3D: Animal Kingdom	2013	3D K2
L&C	Lewis & Clark: Great Journey West	2002	CPD
LastReef	Last Reef, The	2012	3D GSF
LITAOA	Living in the Age of Airplanes	2015	CPD
LivingSe	Living Sea, The	1995	MFF
LOF	Legends of Flight	2010	3D K2
MA	Museum Alive 3D	2016	3D nWP
MOC	Mysteries of China	2016	3D GSF
MOE	Mysteries of Egypt	1998	DIC
MOF	Magic of Flight, The	1997	MFF
MOTUW	Mysteries of the Unseen World	2013	3D CPD
MounQues	Mountain Quest	2018	K2
Mummies	Mummies: Secrets of the Pharaohs	2007	GSF
ND	Neelkanth Darshan	2005	unk
Niagara	Niagara: Miracles, Myths, and Magic	1987	DCI
NPA	National Parks Adventure	2016	3D MFF
OOBP	Oceans: Our Blue Planet	2018	3D GSF
Ozarks	Ozarks: Legacy and Legend	1993	IMAX
Pandas	Pandas	2018	3D IMAX
Penguins	Penguins 3D	2013	3D nWP
PTJH	Pandas: The Journey Home	2014	3D CPD
Pulse	Pulse: A Stomp Odyssey	2002	GSF
Rescue	Rescue 3D	2011	3D K2
RME	Rocky Mountain Express	2011	SLC
RobotsNG	Robots	2015	3D CPD
ROTB	Room on the Broom	2015	3D B&D
SFLIS	Search for Life In Space, The	2016	3D MFF
SOE	Story of Earth, The	2018	3D DMD
SOG	Secrets of Gravity, The	2017	3D B&D
SpaceNex	Space Next 3D	2015	3D B&D
SpacJunk	Space Junk	2012	3D K2
TA	Tornado Alley	2011	3D GSF
TinyGian	Tiny Giants 3D	2014	3D GSF
ToFly	To Fly!	1976	MFF
TOTIA	Titans of the Ice Age	2013	3D GSF
TTA	To the Arctic	2012	3D MFF
TurtOdys	Turtle Odyssey	2018	3D K2
TurtTale	Turtle's Tale: Escape from Paradise, A	2013	3D nWP
VanGogh	Van Gogh: Brush with Genius	2009	MFF
Vikings	Vikings	2004	GSF
Volcanoes	Volcanoes	2018	3D SKF
WATE	Wild Australia: The Edge	1997	MSI
WildAfri	Wild Africa 3D	2015	3D GSF
WildOcea	Wild Ocean	2008	3D GSF
WM	Watermelon Magic	2013	3D B&D
WOTA	Wonders of the Arctic	2014	3D GSF
WTTR3D	Waking the T-Rex: The Story of Sue 3D	2010	3D GSF
WWDPP3D	Walking With Dinosaurs: Prehistoric Planet 3D	2014	3D GSF

Sept.-Oct. 2018 Bookings Count

#	Film	#	Film	#	Film	#	Film
48	DreamBig	7	JTTSP	4	L&C	1	GruffChi
39	OOBP	7	SFLIS	4	Volcanoes	1	HCBTD
38	AmazAdve	6	AfricAdv	4	WOTA	1	HOTB
36	NPA	6	Bugs	3	JTM	1	Kenya
34	AMJ	6	Hurrican	3	MOE	1	LivingSe
22	BackWild	6	LITAOA	3	SOE	1	LOF
20	FOTB	6	Mummies	3	SpaceNex	1	MounQues
18	ExtrWeat	6	RME	2	ConqOTS	1	ND
17	TinyGian	6	TurtTale	2	DSC	1	Ozarks
15	D-Day	5	CRA	2	Greece	1	Pandas
15	HumpbWha	5	DinoAliv	2	ISR	1	Penguins
14	G3DNW	5	FightPil	2	MOF	1	Pulse
14	WildAfri	5	HidUniv	2	Niagara	1	Rescue
11	RobotsNG	5	LastReef	2	PTJH	1	SOG
10	GBR3D	5	MA	2	ROTB	1	SpacJunk
10	Jerusale	5	TA	2	TLR	1	TO FLY
10	JTS	5	TTA	2	WTTR3D	1	ToFly
10	MOC	4	AOTE	1	AirRacer	1	VanGogh
10	TOTIA	4	AsterME	1	Alaska	1	Vikings
9	ACGOTS	4	Dolphins	1	Amazon	1	WATE
9	GWS	4	EarthFli	1	AMMM	1	Wild Ocean
9	MOTUW	4	Everest	1	Animalop	1	WildOcea
9	WWDPP3D	4	FON	1	DIA	1	WM
8	FlyMons	4	GCA	1	Electrop		
8	IncrPred	4	GlobSoun	1	GC		
8	TurtOdys	4	JMCSO	1	Gruffalo		

Directory of Organizations Mentioned in this Issue of LF Examiner

Distributors' abbreviations are listed in **bold.**

360 Kuwait & IMAX
King Faizal Motorway and Sixth Ring Road
Kuwait City, KUWAIT

3D Entertainment Distribution Ltd. **3DED**
Ibex House 61-65 Baker Street
Weybridge, Surrey KT13 8AH UK
Tel: +44 20-7681-2357
Fax: +44 20-7681-2357
www.3DEfilms.com

Achtel Pty. Ltd.
913 Coles Bay Road
Coles Bay, TAS 7215 AUSTRALIA
www.achtel.com

Afterglow Studios
527 Marquette Ave. #2500
Minneapolis, MN 55402 USA
www.afterglowstudios.com

Arri Cine Technik GmbH & Co.
Turkenstrasse 89
Munich, D-80799 GERMANY
Tel: +49 89 3809-0
www.arri.com

Atlantic Productions
Brook Green House
4 Rowan Road, Hammersmith
London, W6 7DU UK
Tel: +44 20 8735 9300
Fax: +44 20 8735 9333
www.atlanticproductions.co.uk

Australian Cinematographers Society
Level 2, 26 Ridge Street
North Sydney, NSW AUSTRALIA
www.cinematographer.org.au

Belga Films
Avenue du Japon, 14
Braine-L'Alleud, 1420 BELGIUM
Tel: +32 2 335 65 00
www.belgafilms.be

BFI IMAX Theater
1 Charlie Chaplin Walk
London, SE1 8XR UK
Tel: +44-20-7902 1210
Fax: +44-20-7902 1212
www.bfi.org.uk/whatson/bfi_imax

BIG & Digital **B&D**
8565 S. Eastern Avenue, Suite 158
Las Vegas, NV 89123 USA
Tel: 502-212-1559
http://biganddigital.com/

Blue Sky Aerial & Specialist Filming
Tärnösund, Tidö
Vasteras, SE-725 92 SWEDEN
Tel: +46-21-189597
Fax: +46-21-126810
www.bluesky.se

California Science Center
700 Exposition Park Drive
Los Angeles, CA 90037-1210 USA
Tel: 213-744-7400
Fax: 213-744-2034
www.californiasciencecenter.org

Camera Lucida Productions
89, rue Oberkampf
Paris, 75011 FRANCE
Tel: 33-1-49 29 51 90
www.cameralucida.fr/

Canon USA
3400 W Olive Ave
Burbank, CA 91505 USA
Tel: 949-788-2296
https://www.usa.canon.com/internet/portal/us/home

Christie Digital Systems
809 Wellington St. N.
Kitchener, ON N2G 4Y7 CANADA
Tel: 519-744-7111
Fax: 519-749-3139

Cineworld Broughton & IMAX
Broughton Shopping Park, Chester Road
Broughton, Flintshire CH4 0DE UK
Tel: +44 0871 200 2000
http://www.cineworld.co.ukwww.cineworld.co.uk/

Cineworld Sheffield & IMAX
Valley Centertainment, Broughton Lane
Sheffield, S9 2EP UK
Tel: +44 871 200 2000
www.cineworld.co.uk/

COSI Columbus
333 West Broad Street
Columbus, OH 43215 USA
Tel: 614-228-2674
Fax: 614-228-6363
www.cosi.org

Cosmic Picture
6000 3E Avenue
Montreal, QC H1Y 2X3 CANADA
Tel: 514-279-0046

Cosmic Picture Distribution **CPD**
15 Lee Road
Somers, NY 10589 USA

D3D Cinema
990 Grove St., Suite 200
Evanston, IL 60201 USA
Tel: 847-475-9140
Fax: 847-475-9145
www.d3dcinema.com/

December Media
Level 1, 462 City Rd
South Melbourne, Victoria 3205 AUSTRALIA
Tel: +61-3-9699 8911
Fax: +61-3-9699-8611
www.decembermedia.com.au

December Media Distribution
476 Bourke Street
Surry Hills, NSW 2010 AUSTRALIA
www.decembermedia.com.au

Definition Films
Building #125 Trackdown
115 Lang Road Entertainment Quarter
Sydney, NSW 2021 AUSTRALIA
www.definitionfilms.com.au/

Destination Cinema, Inc. **DCI**
3544 Lincoln Avenue, Suite C
Ogden, UT 84401 USA
Tel: 801-392-2001
Fax: 801-392-6703
www.destinationcinema.com

Digital Crossing Productions
14 Jerome Street
Toronto, ON M6P 1H7 CANADA
http://digitalcrossing.ca/

Eastman Kodak Company
1700 Dewey Avenue
Rochester, NY 14650-1922 USA
www.kodak.com

Elwha Films
720 N J St
Tacoma, WA 98403 USA

Evans & Sutherland
770 Komas Drive
Salt Lake City, UT 84108-1229 USA
Tel: 801-588-1000
Fax: 801-588-4500
www.es.com

Fleet Science Center
1875 El Prado
PO Box 33303
San Diego, CA 92101 USA
Tel: 619-238-1233
Fax: 619-685-5771
www.rhfleet.org

Fort Worth Museum of Science and History
1600 Gendy St.
Fort Worth, TX 76107 USA
Tel: 817-255-9300
Fax: 817-732-7635
www.fortworthmuseum.org

FotoKem Industries, Inc.
2801 W. Alameda Ave.
Burbank, CA 91505-4582 USA
Tel: 818-846-3101
Fax: 818-841-2130
www.fotokem.com

Foxfire Interactive Corporation **FIC**
500 East Washington St, Suite 30
North Attleboro, MA 02760 USA
Tel: 508-699-6650
Fax: 508-699-6651
www.foxfireinteractive.com

Giant Screen Cinema Association
624 Holly Springs Road Suite 243
Holly Springs, NC 27540 USA
Tel: 919-346-1123
www.giantscreencinema.com

Giant Screen Consulting
11590 SE 60th Avenue
Milwaukee, OR 97222 USA
Tel: 503-577-2608
www.giantscreenconsulting.com

Giant Screen Films **GSF**
1421 Sherman Ave, Unit 101
Evanston, IL 60201 USA
Tel: 847-475-9140
Fax: 847-475-9145
www.gsfilms.com

Golden Gate 3D
300 California Avenue
Building Two, Treasure Island
San Francisco, CA 94130 USA
Tel: 415-779-4433
http://gg3d.com/

Grand Schema
New York, NY USA

Great Lakes Science Center
601 Erieside Ave.
Cleveland, OH 44114 USA
Tel: 216-696-2844
Fax: 216-736-7905
www.glsc.org

Hollywood Megaplex Plus City & IMAX
Pluskaufstrasse 12
Pasching, 4061 AUSTRIA
www.megaplex.at/kino/hollywood-megaplex-pasching

Imax Corporation **IMAX**
2525 Speakman Drive
Mississauga, ON L5K 1B1 CANADA
Tel: 905-403-6500
Fax: 905-403-6450
www.imax.com

IMAX Theatre Melbourne
Rathdowne Street-Carlton Gardens
GPO Box 666E
Melbourne, Victoria 3053 AUSTRALIA
Tel: +61-3-9656-8633
Fax: +61-3-9663-5554
www.imaxmelbourne.com.au/

IMAX Victoria In the Royal BC Museum
675 Belleville Street
Victoria, BC V8W 1A1 CANADA
Tel: 250-953-4629
Fax: 250-480-4830
https://imaxvictoria.com/

K2 Communications **K2**
880 Apollo Street, Suite 239
El Segundo, CA 90245 USA
Tel: 310-524-9100
Fax: 310-524-1540
www.k2communications.com/

Kinepolis IMAX Theatre
Eeuwfeestlaan 20
Brussels, B-1020 BELGIUM
Tel: +32-2-474-2600
Fax: +32-2-474-2606
www.kinepolis.com

Liberty Science Center
222 Jersey City Blvd.
Jersey City, NJ 07305 USA
Tel: 201-451-0006
Fax: 201-451-6383
www.lsc.org

Loch Ness Productions
P. O. Box 924
Nederland, CO 80466-0924 USA
Tel: 303-642-7250
Fax: 303-642-7249
www.lochnessproductions.com

MacGillivray Freeman Films, Inc. **MFF**
PO Box 205
Laguna Beach, CA 92652 USA
Tel: 949-494-1055
Fax: 949-494-2079
www.macfreefilms.com

Making Movies
195 Ponsonby Road, Ponsonby
Auckland, 1011 NEW ZEALAND
Tel: +64 9 921 5832 x1
www.makingmovies.co.nz

Maritime Aquarium at Norwalk
10 North Water Street
Norwalk, CT 06854 USA
Tel: 203-852-0700
Fax: 203-838-5416
www.maritimeaquarium.org

McWane Science Center
200 19th Street
Birmingham, AL 35203-3116 USA
Tel: 205-714-8300
Fax: 205-714-8400
www.mcwane.org

Milbrand Cinema
24780 Highland Way
Los Gatos, CA 92033 USA
www.milbrandcinema.com

Museum of Discovery and Science
401 SW Second St.
Fort Lauderdale, FL 33312 USA
Tel: 954-467-6637
Fax: 954-467-0046
www.mods.org

MZM
6 Rue du Vieux Colombier
Paris, 75006 FRANCE

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National Air and Space Museum
6th& Independence Ave. SW
Washington, DC 20560 USA
Tel: 202-357-1675
Fax: 202-357-1652
www.nasm.si.edu/

nWave Pictures
4747 W Avenue L2
Quartz Hill, CA 93536 USA
Tel: 818-565-1010
Fax: 818-565-1161

Oceanic Research Group
PO Box 94
North Reading, MA 01864 USA
Tel: 978-664-9091
www.oceanicresearch.org

Ontario Science Centre
770 Don Mills Rd.
Toronto, ON M3C 1T3 CANADA
Tel: 416-429-4100
Fax: 416-696-3135
www.ontariosciencecentre.ca/

Ouragan Films
La Marie Louise, Route de Cazan
Pelissanne, 13330 FRANCE
Tel: +44-4 95 06 80 68
www.ouragan-lefilm.com

Panavision Inc.
6219 De Soto Avenue
Woodland Hills, CA 91367 USA
Tel: 818-316-1000
Fax: 818-316-1021
www.panavision.com

Paramount Pictures Corporation
5555 Melrose Avenue
Hollywood, CA 90038-3197 USA
Tel: 323-956-5000
www.paramount.com

Principal Large Format
Old Vicarage
Leigh on Mendip, BA3 5QG UK
Tel: +44-1373-813-301
Fax: +44-1373-813-379
www.plf.cc/

RED Studios
846 N. Cahuenga Blvd.
Los Angeles, CA 900387 USA
Tel: 323-463-0808
www.red.com

RPG Productions, Inc.
632 South Glenwood Place
Burbank, CA 91505 USA
Tel: 818-848-0240
Fax: 818-848-2846
www.rpgproductions.com/

Saint Thomas Productions
Village d'Entreprises Saint Henri
Rue Anne Gacon - Bat 301-302
Marseille, 13016 FRANCE
Tel: +33 4 95 068 068
www.saint-thomas.net/

Sean Casey Productions
Los Angeles, CA USA

Serengeti Entertainment **SER**
56 Gloucester Road, Suite 320
London, SW7 4UB UK
http://serengetientertainment.com

SK Films, Inc. **SKF**
Pinewood Toronto Studios
225 Commissioners Street, Suite 303
Toronto, ON M4M 0A1 CANADA
Tel: 416-367-0440
Fax: 647-837-3350
www.skfilms.ca

Sony Electronics, Inc.
10000 Washington Blvd
Culver City, CA 90232 USA

Sony Pictures Entertainment
10202 West Washington Blvd
Culver City, CA 90232-3195 USA
Tel: 310-244-4000

Spirit Bear Entertainment
PO Box 187
Terrace, BC V8G 4A6 CANADA
http://bcspiritbear.com/

Statement Pictures, LLC
131 8th Street, Ste 9
Brooklyn, NY 11215-3115 USA
www.statementpictures.com

Stephen Low Company
795 Carson Ave, Suite 6
Dorval, QC H9S 1L7 CANADA
Tel: 514-633-6036
Fax: 514-633-6035
www.stephenlow.com

Stephen Low Distribution, Inc.
795 Carson Ave, Suite 6
Dorval, QC H9S 1L7 CANADA
Tel: 514-633-6036
Fax: 514-633-6035
www.stephenlow.com

Tandem Stills + Motion
, USA
Tel: 310-597-5200
https://tandemstock.com

Tennessee Aquarium
201 Chestnut Street
Chattanooga, TN 37401 USA
Tel: 423-266-4629
Fax: 423-267-3561
www.tennis.org

Texas Instruments
PO Box 869305
Plano, TX 75086 USA
Tel: 972-575-2000
www.ti.com

Transcendent Media Capital
15/F Effectual Building
16 Hennessy Road, Wanchai
Hong Kong, CHINA
Tel: +351 919 593 245
https://www.transcendent-media.com

Twist Technology, LLC
PO Box 43675
Birmingham, AL 35243 USA
Tel: 877-878-3982
www.twisttechllc.com/

U.S. Space and Rocket Center
One Tranquility Base
Huntsville, AL 35807 USA
Tel: 256-837-3400
Fax: 256-721-7180
https://www.rocketcenter.com/

Universal Pictures
100 Universal City Plaza
Universal City, CA 91608 USA
Tel: 818-777-1000
Fax: 818-622-0407
www.universalstudios.com

Via Studios Global
100 WVIA Way
Pittston, PA 08640 USA
www.viastudiosglobal.com/

Whitaker Center for Science and the Arts
222 Market Street
Harrisburg, PA 17101 USA
Tel: 717-214-2787
Fax: 717-221-8208
www.whitakercenter.org

Wild Expectations, Ltd
Peat House, Newham Road
Truro, Cornwall TR1 2DP UK
Tel: +44-1736-796978
www.deeblestone.com

Wild Pacific Media
Fox Studios, Building 103, Unit 5
Moore Park, NSW 2021 AUSTRALIA
Tel: +61-433 801 221
www.wildpacificmedia.com/

Zhejiang Wandi & IMAX
4th Floor, Wandi Square, Huyuan Rd
Liandu District
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SHORTS

IMERSA news

IMERSA, the association for Immersive Media, Entertainment, Research, Science, and Art, has added two new members to its board and announced the date and location of its 2019 Summit.

Carolyn Collins Petersen, of Loch Ness Productions, and Andy Zakrajsek, formerly with COSI Columbus, joined the board earlier this year, bringing its number to six.

The association will hold its tenth Summit at COSI, Feb. 2–5, 2019. The meeting will include screenings of fulldome shows and workshops and presentations on fulldome production tools and techniques. For more information, visit imersa.org.

Achtel's 8K camera

Achtel Pty. Ltd. in Australia has announced the "world's first large-format 8Kx6K digital cinema camera." With a native resolution of 7920x6004 pixels, it has a 4:3 aspect ratio and 48 megapixels. It can shoot at 24 and 30 fps at full resolution, outputting RAW uncompressed data at up to 2 GB/sec. For more information, visit achtel.com.

Norwalk to start on 4D theater

The Maritime Aquarium in Norwalk, CT, will begin construction in November on a new 4D theater and exhibit space to replace the IMAX theater and exhibit halls that will be demolished next year to make way for the replacement of a railroad bridge that passes over the museum's building.

As we have reported previously, the 30-year-old IMAX theater is immediately adjacent to the 122-year-old Walk Bridge, which carries thousands of Amtrak and commuter passengers over the Norwalk River every day. Replacing it will require using the space on which the IMAX theater stands for the underground installation of railroad signal and power systems, and for a large crane needed for construction of the new bridge.

The 365-seat IMAX theater, which is equipped with a 15/70 GT film projector, will close at the end of June 2019. The 179-seat 4D theater is being provided by Simex/Iwerks Entertainment and will include 3D digital projection, motion-base seats, and in-theater special effects like wind and water. It is expected to open in October 2019. Demolition of the IMAX theater and construction of the bridge will begin in late 2019.

The new theater and exhibit space, estimated to cost $34.5 million, is being funded by state and federal funds, negotiated as part of a "functional replacement" agreement by the aquarium.

Imax launches consumer brand

Imax Corporation has announced that it is partnering with DTS and other companies on IMAX Enhanced, a line of consumer electronics products that will "offer consumers a new level of quality in immersive sight and sound experiences for the home," according to a press release. Imax and DTS will certify and license hardware from companies such as Sony Electronics, Sound United (parent company to the Denon and Marantz audio brands). Content, including "select IMAX documentaries," will be mastered in 4K and high dynamic range (HDR), and provided by Sony Pictures, Paramount Pictures, and other distributors.

The 4K HDR televisions, A/V receivers, sound systems, and other equipment that receives the IMAX Enhanced certification will have an IMAX Mode that is "meticulously optimized to play digitally remastered content as the filmmaker intended in the home." The products will be required to meet "a carefully prescribed set of the highest audio and video performance standards, set by a certification committee of IMAX and DTS engineers and Hollywood's leading technical specialists. The companies will also partner with award-winning Hollywood sound mixers to use a special variant of its DTS:X codec technology integrated in home audio equipment to deliver an IMAX signature sound experience."

Five Sony OLED and LCD flat screen TVs, nine Sony projectors, three Denon AVRs and five Marantz AVRs currently meet the IMAX Enhanced certification.

The program does not represent a new standard. Hardware meeting the IMAX Enhanced specs will be capable of showing standard content, and IMAX Enhanced content will be playable on standard equipment.

CNET's Joshua Goldman expressed skepticism: "Would an Imax Enhanced receiver really offer any additional performance over THX certified receiver? Probably not. It would probably come down to the differences in the brands and units themselves. Same with displays. There's not some untapped well of performance Imax engineers can delve into for this. The Imax Mode could have settings that perhaps look better than the TV does out of the box, but that's hardly revolutionary, and something you could do yourself."

Private IMAX wins award

The first private IMAX theater in Europe (*see Shorts, January 2018*) won the Best Home Cinema ($450,000 and over) at the 2018 CEDIA Awards, presented at the British Museum in London in October. The installation, in a home in London, features 15 seats and an 18-foot (5.5-meter) wide screen, and cost a total of $1.3 million. It was hailed by judges as "a residential cinema like no other."

CEDIA is the trade association of the home technology industry.

BFI shows Victorian GS films

As part of the London Film Festival in October, the BFI IMAX Theater presented the *Great Victorian Moving Picture Show*, featuring 120-year-old footage shot by cinema pioneer W.K.L. Dickson on 68mm film. The Biograph format was sprocketless and used 2x2.5-inch frames (a 1.25:1 aspect ratio) shot at 30 fps.

The footage shown at the festival included scenes of the royal family taking tea in 1897, battles in the Boer War, and contemporary music hall performers, and was scanned from nitrate prints and projected by the theater's 4K digital projectors. The clips may soon be available online. For more information see tinyurl.com/vicgs.